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(SEQ ID No:361 ; SEQ ID No:31) ; SET No 153 (SEQ ID No:362 ; SEQ
ID No:363 ; SEQ ID No:364) ; SET No 154 (SEQ ID No:365 ; SEQ ID
10 No:366 ; SEQ ID No:367) ; SET No 157 (SEQ ID No:372 ; SEQ ID
No:373 ; SEQ ID No:108) ; SET No 159 (SEQ ID No:377 ; SEQ ID
No:378 ; SEQ ID No:379) ; SET No 166 (SEQ ID No:396 ; SEQ ID
No:397 ; SEQ ID No:398) ; SET No 168 (SEQ ID No:401),

wherein the combination of overexpression of the
15 genes identified by said first group of cluster sequences
with the underexpression of the genes identified by said
second group of cluster sequences are useful in classifying
good and poor prognosis primary breast tumors.

20 23. A polynucleotide library according to Claim
22 wherein said polynucleotide sequences or subsequences
thereof of said pool correspond to any combination of at
least one polynucleotide selected among those included in at
least 50%, preferably 75% and more preferably 100% of the
25 predefined sets.

24. A polynucleotide library according to anyone
of Claims 1 to 23 wherein said tumor cells are breast tumor
cells.

30 25. A polynucleotide library according to any of
Claims 1 to 23 wherein said polynucleotides are immobilized
on a solid support in order to form a polynucleotide array.

26. A polynucleotide library according to Claim 25 wherein the support is selected from the group comprising a nylon membrane, nitrocellulose membrane, glass slide, glass beads, membranes on glass support or a silicon chip.

5

27. A polynucleotide array useful for prognosis or diagnostic of tumor comprising an immobilized polynucleotide library according to Claims 1 to 3.

10

28. A polynucleotide array useful to differentiate a normal cell from a cancer cell comprising any combination of immobilized polynucleotide sequences sets according to claims 4 to 7.

15

29. A polynucleotide array useful to detect a hormone sensitive tumor cell comprising any combination of immobilized polynucleotide sequences sets according to claims 8 to 11.

20

30. A polynucleotide array useful to differentiate a tumor with lymph nodes from a tumor without lymph nodes comprising any combination of immobilized polynucleotide sequences sets according to claims 12 to 15.

25

31. A polynucleotide array useful to differentiate antracycline-sensitive tumors from antracycline-insensitive tumors comprising any combination of immobilized polynucleotide sequences sets according to claims 16 to 19.

30

32. A polynucleotide array useful to classify good and poor prognosis primary breast tumors comprising any

combination of immobilized polynucleotide sequences sets according to claim 20 to 23.

5 33. A method of detecting differentially expressed polynucleotide sequences which are correlated with a cancer, said method comprising:

a) obtaining a polynucleotide sample from a patient and

10 b) reacting said polynucleotide sample obtained in step (a) with a probe immobilized on a solid support wherein said probe comprises any combination of the polynucleotide sequences of the polynucleotide library of Claims 1 to 23 or any combination of expression products encoded by any of the polynucleotide sequences of the
15 libraries of Claims 1 to 23 and

c) detecting the reaction product of step (b).

34. A method for detecting differentially expressed polynucleotide sequences according to Claim 33
20 wherein said polynucleotide sample is labeled before its reaction step.

35. A method for detecting differentially expressed polynucleotide sequences according to Claim 34
25 wherein the label of the polynucleotide sample is selected from the group consisting of radioactive, colorimetric, enzymatic, molecular amplification, bioluminescent or fluorescent labels.

30 36. A method for detecting differentially expressed polynucleotide sequences according to Claims 33 to 35 further comprising obtaining a control polynucleotide sample, reacting said control sample with said probe

detecting a control sample reaction product and comparing the amount of said polynucleotide sample reaction product to the amount of said control sample reaction product.

5 37. A method for detecting differentially expressed polynucleotide sequences according to Claims 33 to 36 wherein the polynucleotide sample is cDNA, RNA or mRNA.

10 38. A method for detecting differentially expressed polynucleotide sequences according to Claim 37 wherein mRNA is isolated from said polynucleotide sample and cDNA is obtained by reverse transcription of said mRNA.

15 39. A method for detecting differentially expressed polynucleotide sequences according to Claims 33 to 38 wherein said reaction step is performed by hybridising the polynucleotide sample with the probe.

20 40. A method for detecting differentially expressed polynucleotide sequences according to Claims 33 to 39 wherein said method is used for detecting, diagnosing, staging, monitoring, predicting, preventing or treating conditions associated with cancer.

25 41. A method for detecting differentially expressed polynucleotide sequences according to Claims 33 to 40 wherein the cancer is breast cancer.

30 42. A method for detecting differentially expressed polynucleotide sequences according to Claims 33 to 41 wherein the product encoded by any of the polynucleotide sequences or polynucleotide sequences sets is involved in a receptor-ligand reaction on which detection is based.

43. A method for screening an anti-tumor agent comprising the method of Claim 33 wherein said polynucleotide sample is obtained from a patient treated with the anti-tumor agent to be screened.

5

Figure 1

Figure 1A Normal Breast

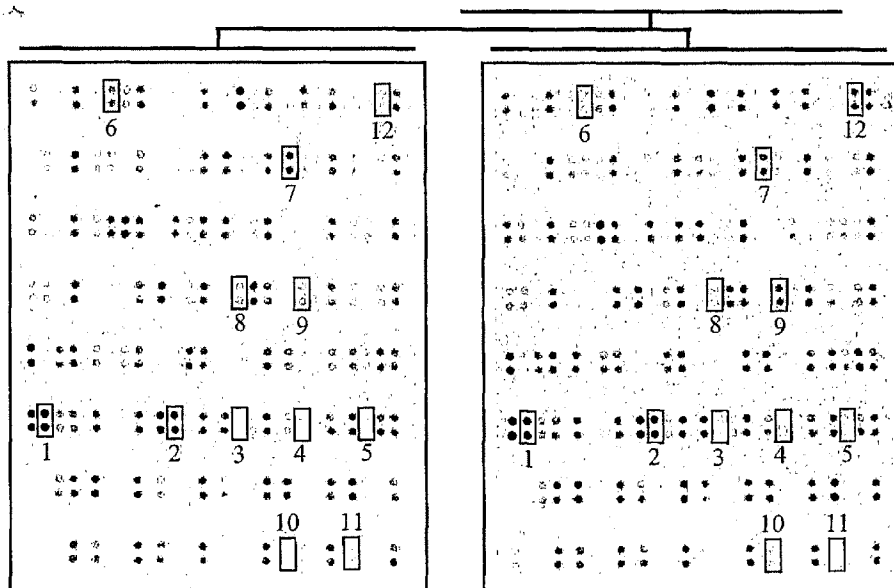
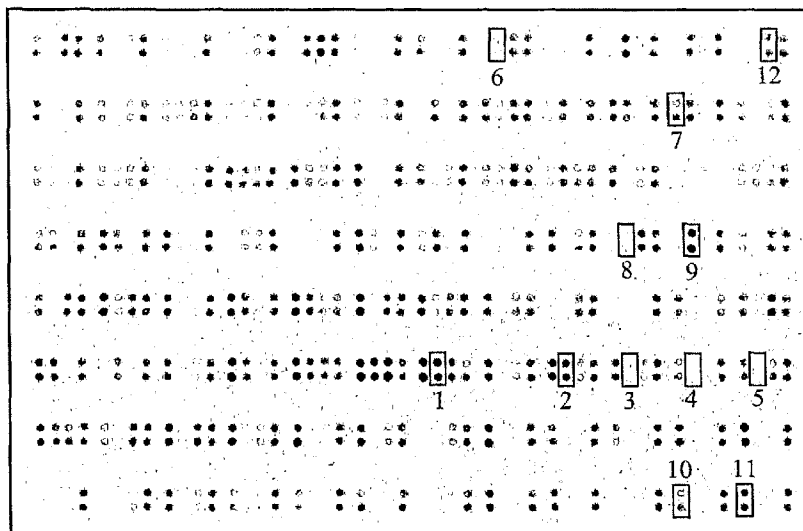


Figure 1B

ER-

ER+

Figure 1C

Breast cancer

Figure 2

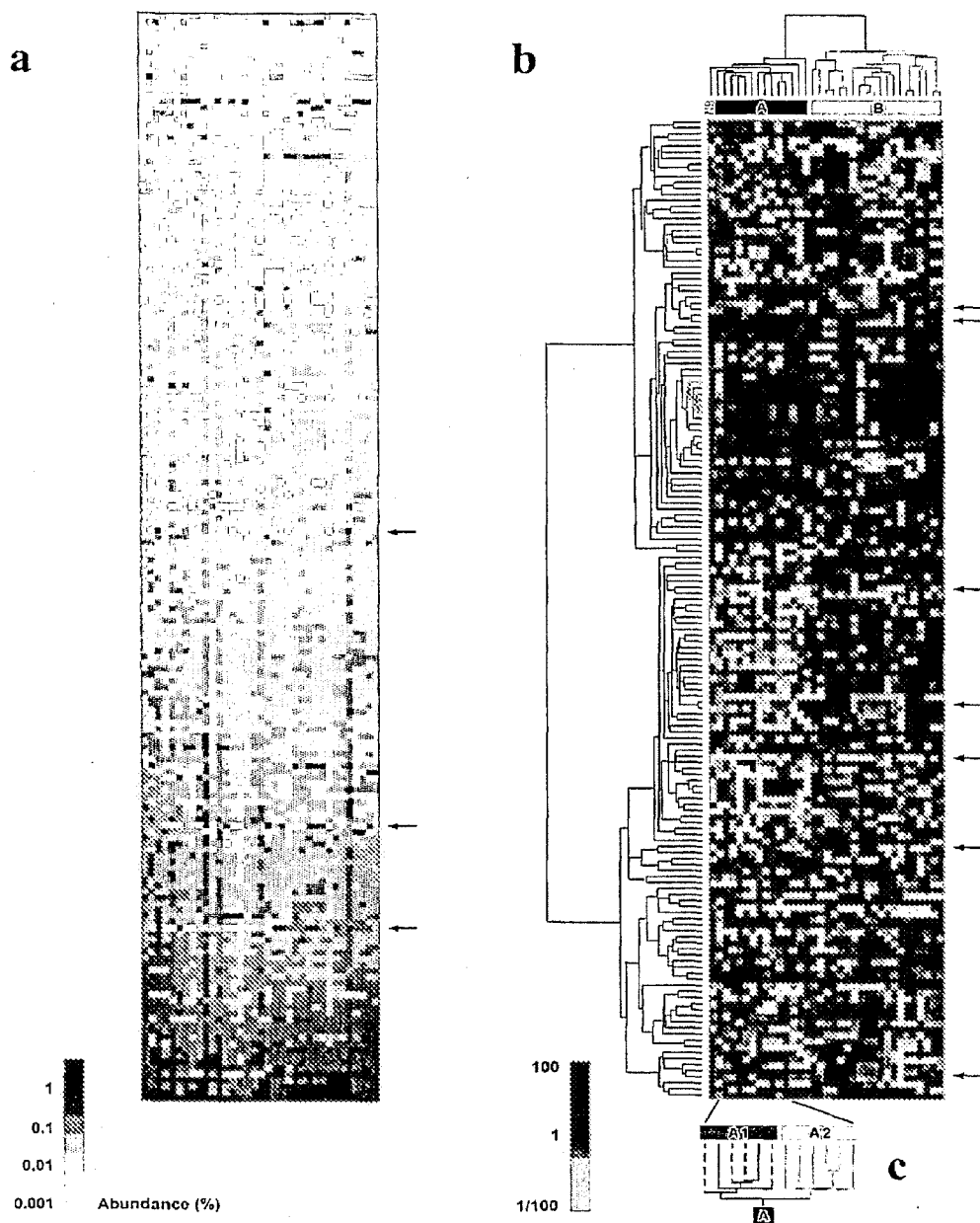


Figure 3

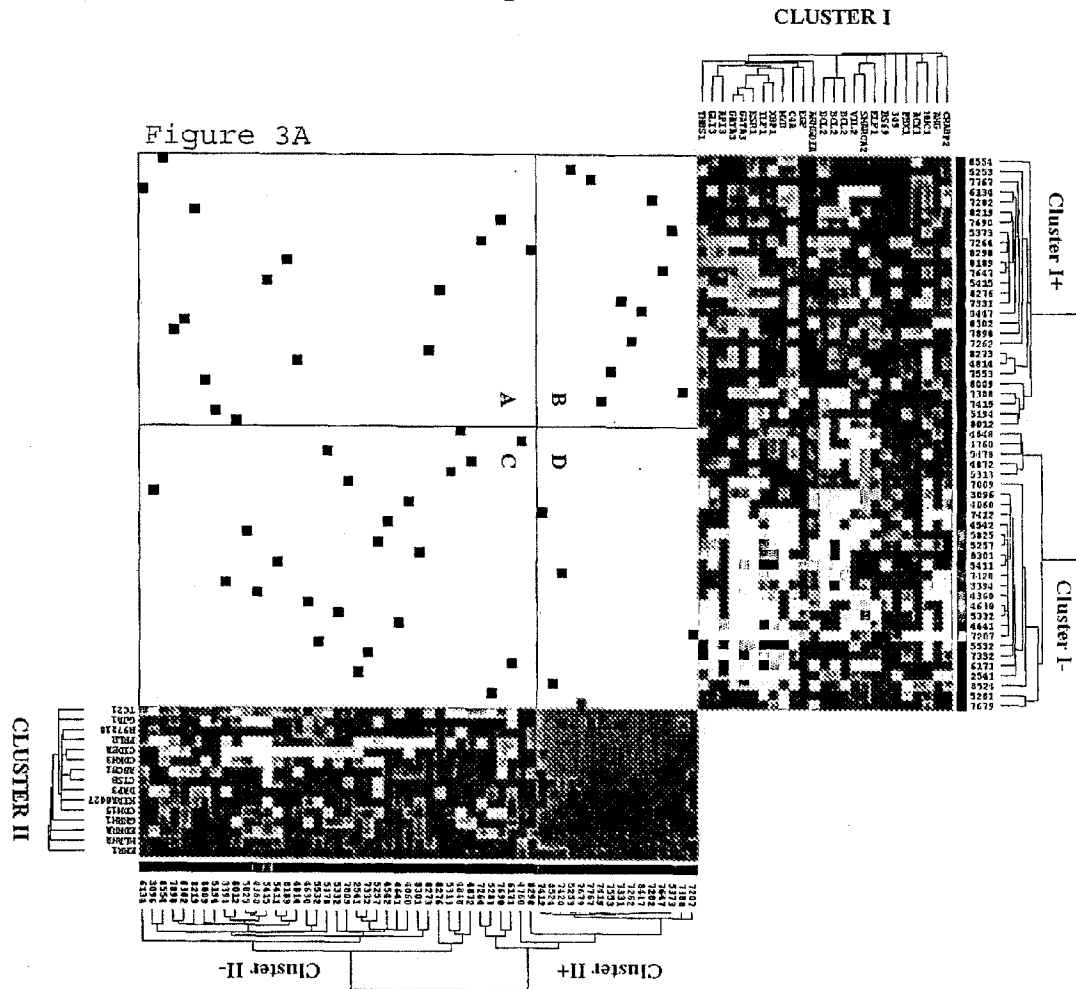


Figure 3C

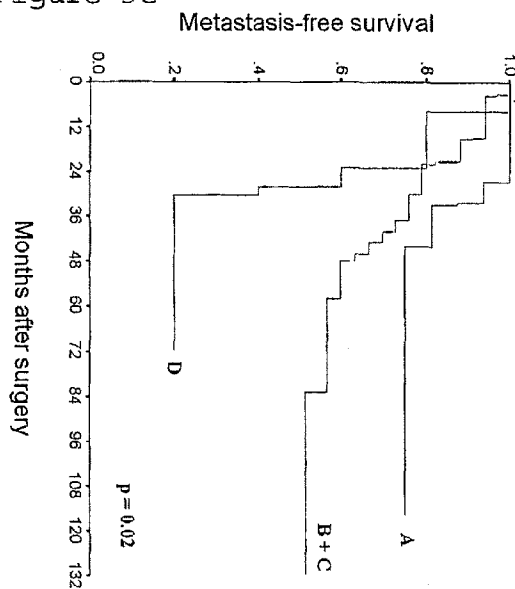


Figure 3B

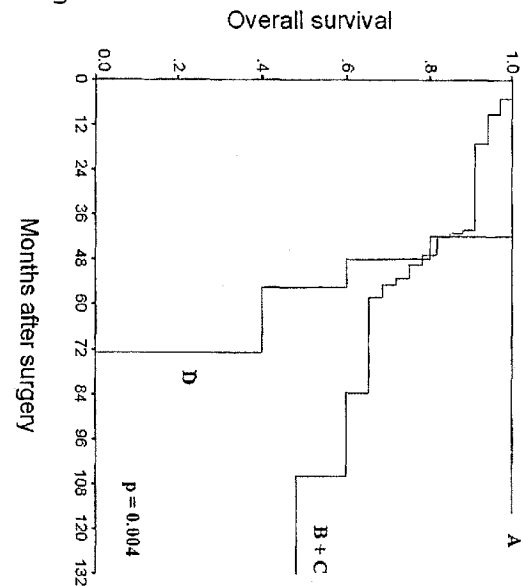


Figure 4

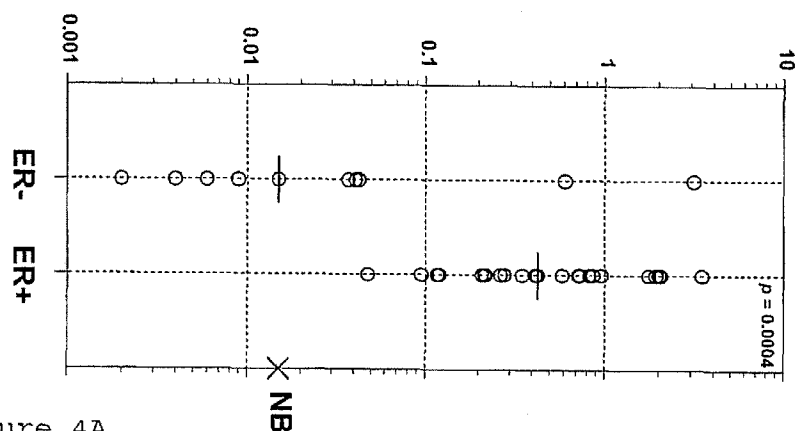


Figure 4A

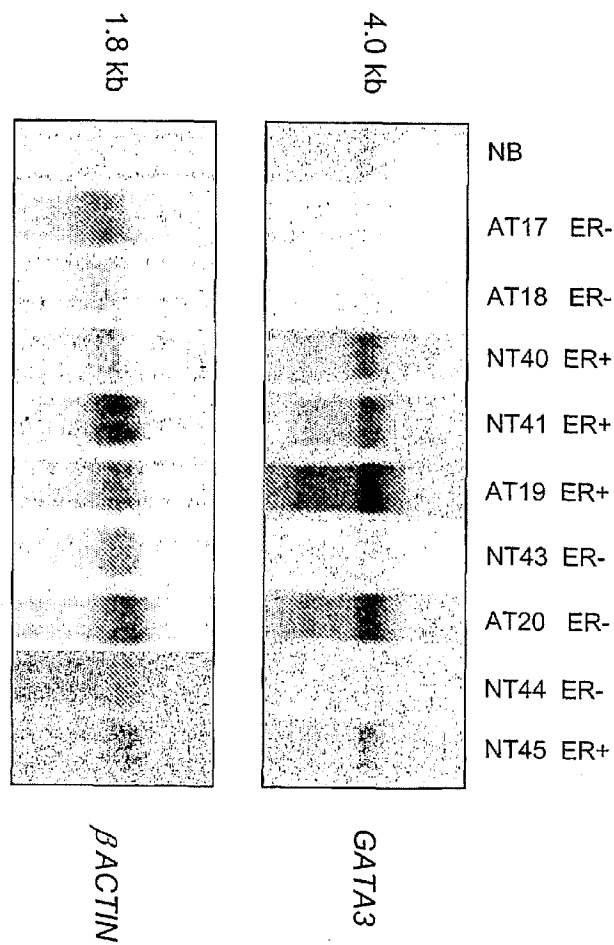


Figure 4B

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<120> cDNA arrays and their use for gene expression profiling.

<110> François Bertucci
Rémi Houlgatte
Daniel Birnbaum
Catherine Nguyen
Patrice Viens
Fert, vincent

<120> cDNA arrays and their use for gene expression profiling.

<130> 10813PCT-December-2001-ipsogen

<140> PCT/IB/xxxx

<141> 2001-12-07

<150> US-60/254,090

<151> 2000-08-12

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acccatctgg aggtcttctta aagcccaggc cccacgccga gcttctgagt caataaagaa 180
gtctgcattt ctaacaagct tctaggggat gctgtgctct ctgctggctc agggggccca 240
ctttgaagaa ccactgcact ggtnttttcc tctgggaccc gaatgcctgt gcttctcccc 300

```

<210> 8

<211> 369

<212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:primer

<220>
 <221> misc_feature
 <222> (1)..(369)
 <223> 5' terminal sequence. ests, weakly similar
 to alu7_human alu subfamily sq sequence
 contamination warning entry [h.sapiens] (EST
 T81919) gene.

<400> 8
 cctaacgcag gtttccccgc aaatgactgg tcacgcggga ctgaacaccg cacaggcagg 60
 aggcattggca agggtaagtg aa ctgaagca ctttcaatac ttcttaccta accgcgggct 120
 ttccctccga gtaatgcgta aaatgggacc acgtggccca ctctgtttt tcctcttggg 180
 ctctccacgt gccactcatg cttggaagag acagattttt ttctaggata aagatctctg 240
 ccccatcttct gtcttttaaa atggagaatt ctttaaagaa gtagggacag cttncagggt 300
 cagggcagtt tgggaaagtn acaggggcct aattgtgttc cgtggaaacn ggggtaggag 360
 gtttgcttt 369

<210> 9
 <211> 255
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:primer

<220>
 <221> misc_feature
 <222> (1)..(255)
 <223> 3' terminal sequence. cyclin d1 (prad1:
 parathyroid adenomatosis 1) (CCND1) gene.

<400> 9
 aaagacagtt tttgggtaat ctttttcttt tgcttaagtc agagatggaa gggggaaaga 60
 gcaaaggaaa aaacaaccaa caacaaggag aatgaagctt tcccttctgg tatcaaaatg 120
 ctccggagag gagggactnt cagtggagca cctggggccg gctccgctc gctgcgggtg 180
 gcggtggcgc cctngcctg gcgccttcag atgtcacgt cccgcacgtc ggtgggtntg 240
 caagccaggt ccacc 255

<210> 10
 <211> 1325
 <212> DNA/RNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:primer

<220>
 <221> misc_feature
 <222> (1)..(1325)
 <223> cyclin d1 (prad1: parathyroid adenomatosis
 1) (CCND1) gene.

<400> 10

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```
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gcgcggggga gcagaagcga gagccgagcg cggacccagc caggacccac agccctcccc 120
agctgccccag gaagagcccc agccatggaa caccagctcc tgtgctgcga agtggaacc 180
atccgcccgc cgtaacccga tgccaacctc ctcaacgacc ggggtgctgcg ggccatgctg 240
aaggcggagg agacctgcgc gccctcgggtg tctacttca aatgtgtgca gaaggaggtc 300
ctgccgtcca tgcggaagat cgtcgccacc tggatgctgg aggtctgcga ggaacagaag 360
tgcgaggagg aggtcttccc gctggccatg aactacctgg accgcttctt gtcgctggag 420
cccgtgaaaa agagccgcct gcagctgctg ggggccactt gcatgttcgt ggcctctaag 480
atgaaggaga ccatccccct gacggccgag aagctgtgca tctacaccga cggctccatc 540
cggcccagag agctgctgca aatggagctg ctcttggtga acaagctcaa gtggaacctg 600
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gagaacaaac agatcatccg caaacacg cg cagaccttcg ttgcctcttg tgccacagat 720
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tgacttaagc aaaagaaaaa gattacccaa aaactgtctt taaaagagag agagagaaaa 1260
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1320
aaaaa 1325
```

<210> 11

<211> 449

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer

<220>

<221> misc_feature

<222> (1)..(449)

<223> 5' terminal sequence. signal transducer and
activator of transcription 1, 91kd (STAT1) gene.

<400> 11

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ttaggaagtt caacattttg ggcacgcaca caaaagtgat gaacatggag gagtccacca 120
atggcagctc ggcggctgaa ttccggcacc tgcaattgaa agaacaga aa aatgctggca 180
ccagaacgaa tgagggtcct ctcatcgta ctgaagagct tcactccctt agttttgaaa 240
cccaattgtg ccagcctggg ttggttaatt gacctcgaga cgacctctct gcccgttgtg 300
ggtgatctcc aacgtcagcc agctcccgag cggttggggc ctocattcct ttgggtacaa 360
catgctgggt nggcgggaac cggggg ante tgttcttnt ttcctggact ccaccatgtg 420
ncacggtggg gtttcagntt ttcagaagt 449
```

<210> 12

<211> 4003

<212> DNA/RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer

<220>

<221> misc_feature

<222> (1)..(4003)

<223> signal transducer and activator of
transcription 1, 91kd (STAT1) gene.

<400> 12

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gccatcctcg  agagctgtct  aggttaacgt  tcgcactctg  tgtatataac  ctgcacagtc  120
ttggcaccta  acgtgctgtg  cgtagctgct  cctttgggtg  aatccccagg  cccttggttg  180
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ggagcaggtt  caccagcttt  atgatgacag  ttttcccatg  gaaatcagac  agtacctggc  300
acagtggtta  gaaaagcaag  actgggagca  cgctgccaat  gatgttt  cat  ttgccaccat  360
ccgttttcat  gacctcctgt  cacagctgga  tgatcaatat  agtcgctttt  ctttgagaaa  420
taacttcttg  ctacagcata  acataaggaa  aagcaagcgt  aatcttcagg  ataattttca  480
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attaggggtg  tatttagtct  att agccaca  aaattgggaa  aggagtagaa  aaagcagtaa  3420
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ctgacaactt gaataatata ccagagataa tatgagaatc agatcatttc aaaactcatt 3480
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gcgaatgggt ccattctctc tcctgtactt tttccagaca cttttttgag tggatgatgt 36 00
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<210> 13

<211> 167

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer

<220>

<221> misc_feature

<222> (1)..(167)

<223> 3' terminal sequence. fibroblast growth factor receptor 2 (bacteria -expressed kinase, keratinocyte growth factor receptor, craniofacial dysostosis 1, crouzon syndrome, pfeiffer syndrome, jackson-weiss syndrome) (FGFR2) gene.

<400> 13

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ccacctctgc tcggtgaaaa ttaagaaatt atgtgtaaga acagcattta gcaaataagct 60
attaaaaaaa gagagaccaa ttttctag gt gcattgggac atccatttaa antcaatata 120
aaaaataact ccttgtaa ntataatata ttattttat ntaattt 167

```

<210> 14

<211> 414

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer

<220>

<221> misc_feature

<222> (1)..(414)

<223> 5' terminal sequence. fibroblast growth factor receptor 2 (bacteria -expressed kinase, keratinocyte growth factor receptor, craniofacial dysostosis 1, crouzon syndrome, pfeiffer syndrome, jackson-weiss syndrome) (FGFR2) gene.

<400> 14

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ggacacagaa tggataagcc agccaactgc accaacgaac tgtacatgat gatgagggac 60
tggtggcatg cagtgcctcc cagagaccaa cgttcaagca gttggtagaa gacttggatc 120
gaattctcac tctcacaacc aatgaggaat acttgaccct cagccaacct ctogaacagt 180
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gttttaaaac atgaatgact gtgtctggcc tgnccccaa acagggacag gcaactggggg 360
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<210> 15
 <211> 4667
 <212> DNA/RNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:primer

<220>
 <221> misc_feature
 <222> (1)..(4667)
 <223> fibroblast growth factor receptor 2
 (bacteria-expressed kinase, keratinocyte growth factor receptor, craniofacial dysostosis 1, crouzon syndrome, pfeiffer syndrome, jackson-weiss syndrome) (FGFR2) gene.

<400> 15
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 gcgtacctgg cccggcgcgcg cgactgctct c cgggctggc gggggcggcg cgcgagcccc 120
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cccactcact ttgcaatagc cgtgcaagat gaatgcagat tacactgatc ttatgtgtta 4560
caaaattgga gaaagtattt aataaaacct gttaattttt atactgacaa taaaaatgtt 4620
tctacagata ttaatgttaa caagaca aaa taaatgtcac gcaactt 4667

```

<210> 16

<211> 483

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer

<220>

<221> misc_feature

<222> (1)..(483)

<223> 3' terminal sequence. ests (EST T89980)
gene.

<400> 16

```

gtgttgagct cccaaaaggc ttaaaacttg ctttgtgaat gaatgatctt aaatcactag 60
tgaagatgat catggggcat ttgcacatta aagaactaaa atgaaatgaa aaagccatga 120
ctctcactt aatgctatta aaaaaaaatc tgatttggta aattaaaccc acttctcata 180
gtttaattgg gtaatcaacg ttcttgggaa ttc aggttct catgggcacc ctaatagtgt 240
ttagggcgcg gggctcctgag gctgctgggg gtgatccga ggaacaagaa gctgccctat 300
taaaagtaat ctacttgagt ttttcccag tcttgggag ttgttccta ctgtggggct 360
acttataggg gtagggcccc ccaaaccct cacacttagg tcggccctgc tggcttgctg 420
tggggctctg aaangcagcc gctaggangt ccccaagcct naacttacc attttctggc 480

```

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ctg

483

<210> 17
 <211> 400
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:primer

<220>
 <221> misc_feature
 <222> (1)..(400)
 <223> 3' terminal sequence. protein phosphatase 3
 (formerly 2b), catalytic subunit, gamma isoform
 (calcineurin a gamma) (PPP3CC) gene.

<400> 17
 ntttatatat attgaacata aattaaaaga atttataaaa cagccacctt ttacagaat 60
 aaatgcagac tgaattataa atgcacctcc acgttgaagt tgttttgagt tgcttttcat 120
 ttccaataa taaataaata gaattgttc ttgagtttta gatccacctg agccacggca 180
 ggactctaag tcatgaatgg gctttcttcc cttggtcgct cctgtgcgca gatgntgagt 240
 gtgctgaggt tacagatttc attggccac cagcgtgtat gc tatecttt cgggggtggg 300
 cattcgctca ttaattcggg ccagncct cgcgtttct ttcaaaactc cgggatcttg 360
 tgcntggagg cgaggnaccc ctctgatggg cttcccgagg 400

<210> 18
 <211> 490
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:primer

<220>
 <221> misc_feature
 <222> (1)..(490)
 <223> 5' terminal sequence. protein phosphatase 3
 (formerly 2b), catalytic subunit, gamma isoform
 (calcineurin a gamma) (PPP3CC) gene.

<400> 18
 cttggagcac tatacccaca aactgtccg aggtgtctct tatttctaca gttaccctgc 60
 agtttgtgaa tttttgcaga acaataatct actatcaatt atcagagccc atgaagccca 120
 agatgctggg tatogaatgt acaggaagag ccaagccaca ggttttccat cacttattac 180
 aattttctct gccccaatt acctagatgt ctataacaat aaagctgctg tgttgaaata 240
 tgaataacaat gtcataaata tcaggcagtt taactgttct ccacaccctt actgggcttc 300
 caaactttat gggatgtttt cacatgggtc tttgcctttt gttgggggga ccccgacac 360
 agaggatggc tgggtaaatg tggntcaaca ttatggntct ggatggacgg aactgatttt 420
 ctggatggat ggaagcngga tgggaaggca cttacngttt cgtaaggng g ttcttcggg 480
 gnttaggttc 490

<210> 19
 <211> 2134
 <212> DNA/RNA
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer

<220>

<221> misc_feature

<222> (1)..(2134)

<223> protein phosphatase 3 (formerly 2b),
catalytic subunit, gamma isoform (calcineurin a
gamma) (PPP3CC) gene.

<400> 19

```
gggccaccct tagcagcggg cgcggtcggg gccgaagcgg tgttccccgc cttagccgct 60
gcgcctccca agagagcggc cgggtgggcc tcgtcctgtc agtggcgtcg gaggc cggcc 120
tgcggtggcc gcgccttctt ggtgctcgga caccgctgag gagccggggc cgggcacggc 180
tggtgacggg ctccgggcag ctaaggctgc ccgaggagaa ggccggcgcc gcggcgtagg 240
cgacgtccg gcgggctcct ggagcctgga ggaggccgag gggaccatgt ccgggagggc 300
cttccacctc tccaccaccg accgcgtcat caa agctgtc ccttttctc caacccaacg 360
gcttactttc aaggaagtat ttgagaatgg gaaacctaaa gttgatgttt taaaaacca 420
tttggtaaaag gaaggacgac tgaagagga agtagcctta agataatca atgatggggc 480
tgccatcctg aggcaagaga agactatgat agaagtagat gctccaatca cagtatgtgg 540
tgatattcat ggacaattct ttgacctaat gaagttattt gaagttggag gatcacctag 600
taacacacgc tacctctttc tgggtgacta tgtggacaga ggctatttca gtatagagtg 660
tgtgctgtat ttatggagtt taaagattaa tcatcccaa acattgtttc tgcttcgggg 720
aatcatgaa tgcaggcatc ttacagacta ttccacctc aaacaggaat gtc gaatcaa 780
atattcggaa caggtgtatg atgcctgtat ggagacattt gactgtcttc ctcttgctgc 840
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ctgcttttg tctgatccct cagaggatta t ggcaatgag aagaccttgg agcactatac 1020
ccacaacact gtccgagggt gctcttattt ctacagttac cctgcagttt gtgaattttt 1080
gcagaacaat aatttactat caattatcag agcccatgaa gcccaagatg ctgggtatcg 1140
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tttcacatgg tctttgcctt ttgttgggga aaaagtcaca gagatgctgg taaatgtgct 1380
caacatatgc tctgatgacg aactgatttc tgatgatgaa gcaga aggaa gactacagt 1440
tcgtaaggag atcatcagga ataagatcag agccattggg aagatggcac gggctttttc 1500
aattcttcgg caagaaagtg agagtgtgct gactctcaag ggctgactc ccacaggcac 1560
actccctctg ggcgtcctct caggaggcaa gcagactatc gagacagcca tcagagggtt 1620
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gcgaatgcca ccccgaaagg atagcatata ccctgggtggg ccaatgaaat ctgtaacctc 1740
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agtctcgccg tgctcagggt gatctaaaac tcaagaacaa attctattta ttattatt g 1860
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atttattctg taaaaagggt actgttttat aaattctttt aatttatgtt caatatatat 1980
aaaaagtga tctgttttgt tttcccttt tttctccata attttaagaa atgaatctga 2040
ttgtgtgcaa cacatttgtg aagtcttggt cta taaaggg gaacttcccc taataaaagg 2100
gccttggaac cctcaaacct gggtttctga cccc 2134
```

<210> 20

<211> 248

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer

<220>

<221> misc_feature

<222> (1)..(248)

<223> 3' terminal sequence. ests (EST T90726)
gene.

<400> 20
 atccatttat tatatccaat gctaaacact accacttggga ctctaagata tgtttatgcc 60
 tctctgttta ttctagtttt ttaaaaatca aatatacaag atctacaatt atttatatcc 120
 aagatgtcta caccactgcc taagaagcta ttaaaatat t tgtatttggtg caatggnacc 180
 cattattcac atgggcctag gattaaaaag tcaatttata ttgngaataa atttntccaa 240
 aaaaacca 248

<210> 21
 <211> 427
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:primer

<220>
 <221> misc_feature
 <222> (1)..(427)
 <223> 5' terminal sequence. ests (EST T90726)
 gene.

<400> 21
 taagatacga acgagaaacc tgatttattg ctcatccttc ccttgccctcc ctaatggcaa 60
 gcaaaactct gaacatctga aaaggatgta gttctggaca aatcct gact acccagagga 120
 aactcactgt gagattgctg ttgatttgaa ggtgcttcc actaaggta tattttaaag 180
 tagaataaca catgctgagt gtaaaactggg ctttgatttg gtcagctgca gtagtacaaa 240
 aacagcatag aatttgagga aaactaaaac tgctatgaga taggctatga ggaaaactta 300
 aaactggcta tgtggtagga aatg atgtta aanttatgtg gggaaagttt ttccctccn 360
 tattacttca cattacaggc ctttngaggg gcntctgggc tctgnaccn gtttgatggg 420
 cctttga 427

<210> 22
 <211> 294
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:primer

<220>
 <221> misc_feature
 <222> (1)..(294)
 <223> 3' terminal sequence. sry (sex determining
 region y)-box 4 (SOX4) gene.

<400> 22
 ttctttgttt ttcttttttt ttttccgaaa ccaactcgccc tccactgact gcccctgtac 60
 cacatcaaac agtctcctct cctccaagcc tccgggtctt gggaagtctc acctcactga 120
 tttcacgtag aaaagaaggc ggaggccagc agccgcgcgc ncaagctccc caacgtgcaa 180
 atccatttca gtttgaccgt gaacccctt ccagttcgtg tcctcctccg ccccgcccc 240
 tagctcccgc tgetggnntc caacggggtt ntccgggtcat ttctagcgc cggg 294

<210> 23
 <211> 362
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer

<220>

<221> misc_feature

<222> (1)..(362)

<223> 5' terminal sequence. sry (sex determining region y)-box 4 (SOX4) gene.

<400> 23

```

ttccggactt gtctgcaccc ccagcaagaa ggcgagttag ttttctagag acttgaagga 60
gtctcccccct tectgcatca ccaccttggg tttgttttat tttgcttctt ggtcaagaaa 120
ggaggggaga acccagcgca cccctccccc ctttttttaa acgcgtgatg aagacagaag 180
gctccggggt gacgaatttg gccgatggag nat gtttttg gggaacgccg ggactgagag 240
actccacggc agggcggaatt ccggtttggg gctttttttt tectccctct ttttccctt 300
gccccctttg caccggngg agggagntgt tnaaggggag ggagggccag ccagtgttga 360
cc                                     362

```

<210> 24

<211> 2797

<212> DNA/RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer

<220>

<221> misc_feature

<222> (1)..(2797)

<223> sry (sex determining region y) -box 4 (SOX4) gene.

<400> 24

```

ttccccagca ttcgagaaac tcctctctac tttagcacgg tctccagact cagccgagag 60
acagcaaact gcagcgcggt gagagagcga gagagaggga gagagagact ctccagcctg 120
ggaactataa ctctcttgcg agaggcgag aactccttcc ccaaattctt tggggacttt 180
tctctcttta cccacctccg cccctgcgag gaggttgagg gccagttcgg ccgcccgcgc 240
cgtcttcccg ttccggcgtgt gcttgcccg gggaaccggg agggcccggc gatcgcgcgc 300
cgggcccgcc gagggtgtga gcgcgcgtg gcgcccgccg agccgaggcc atggtgcagc 360
aaaccaacaa tgccgagaaac acggaagcgc tgctggccgg cgagagctcg gactcgggcg 420
ccggcctcga gctgggaatc gcctcctccc ccacgcccgg ctccaccgcc t ccacgggcg 480
gcaaggccga cgaccgcgagc tgggtcaaga ccccgagtgg gcacatcaag cgaccatga 540
acgccttcat ggtgtggtcg cagatcgagc ggcgcaagat catggagcag tcgcccagca 600
tgcacaacgc cgagatctcc aagcgcgtg gcaaacgctg gaagctgctc aaagacagcg 660
acaagatccc ttctattcga gaggcggagc ggctgcgcct caagcacatg gctgactacc 720
ccgactacaa gtaccggccc aggaagaagg tgaagtccgg caacgccaac tccagctcct 780
cggcgcgcgc ctctccaag ccgggggaga agggagacaa ggtcgggtggc agtggcgggg 840
gcggccatgg ggcgcgcggc ggccggcgga gcagcaacgc ggggggagga ggcggcggtg 900
cgagtggcgg cggcgccaac tccaaaccgg cgcagaaaaa gagctgcggc tccaaagtgg 960
cgggcggcgc gggcggtggg gttagcaaac cgcacgccaa gctcactctg gcaggcggcg 1020
gcggcggcgc gaaagcagcg gctgccgcgc ccgcctcctt cgcgcgcgaa caggcggggg 1080
ccgcgcgcct gctgccctg ggccgcgcgc ccgaccacca ctgcgtgt ac aaggcgcgga 1140
ctcccagcgc ctccgcctcc gcctcctcgg cagcctcggc ctccgcagcg ctccgcggcc 1200
cgggcaagca cctggcggag aagaaggtga agcgcgtcta cctgttcggc ggccctgggc 1260
cgctcgtcgc gcccggtggc ggctggggcg cgggagccga ccccagcgac cccctgggcc 1320
tgtacagaga ggaggcgcg ggctgctcgc cgcagcgccc cagcctgagc ggccgcagca 1380
gcgcgcctc gtcccccgc gccgcgcgt ccgcccgca ccacgcggc tacgccagcc 1440
tgccgcgcgc ctccgccgc ccgtccagcg cgcctcgcga cgcgtcctcc tcggcctcgt 1500
cccaactctc ctcttctccc tctcggggt cctcgtcctc cgacgacgag ttccaagacg 1 560
acctgctcga cctgaacccc agctcaaact ttgagagcat gtccctgggc agcttcagtt 1620

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cgctgctggc gctcgaccgg gacctggatt ttaacttcga gcccggtcc ggctcgact 1680
tcgagttccc ggactactgc acgcccagg tgagcgagat gatctcgga gactggctcg 1740
agtccagcat ctccaacctg gttttcacct actgaa gggc gcgcaggcag ggagaagggc 1800
cggggggggt aggagaggag aaaaaaaaaag tgaaaaaaaaag aaacgaaaag gacagacgaa 1860
gagttttaaag agaaaaggga aaaaagaaaag aaaaagtaag cagggtcgt tcgcccgcgt 1920
tctcgtcgtc ggatcaagga gcgcggcggc gttttggacc cgcgtccca tccccacct 1980
tccccggccg gggacccact ctgcccagcc ggagggaacg ggaggaggaa gagggtagac 2040
aggggcgacc tgtgattgtt gttattgatg ttgttggtga tggcaaaaa aaaaagcgac 2100
ttcgagtttg ctcccccttg cttgaagaga cccctcccc cttccaacga gcttccggac 2160
ttgtctgcac cccagcaag aaggcgagt agttttctag agacttgaag gagtctccc 2220
cttcctgcat caccaccttg gttttgttt attttgcttc ttgtcaaga aaggagggga 2280
gaacccagcg caccctccc ccccttttt taaacgcgt atgaagacag aaggctcgg 2340
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gcaggcgaat tccgcttg ggc ttttt tctcctct tttcccttg cccctctgc 2460
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cgaactggaa ggggttcac ggtcaactg aaatggatt gcacgttgg gagctggcg 264 0
cgcggtcgtc tggcctccg ccttcttttc tacgtgaaat cagtgggtg agacttcca 2700
gaccccgag gcgtggagga gaggagactg tttgatgtg tacaggggca gtcagtggag 2760
ggcgagtggg ttcgaaaaa aaaaagaaa aaaaggg 2797

```

<210> 25

<211> 352

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer

<220>

<221> misc_feature

<222> (1)..(352)

<223> 5' terminal sequence. ring finger protein 5 (RNF5) gene.

<400> 25

```

acgggggccc caacnanant cgcgagcngg gcgtggcggg cgcgaccttc gaatgt anta 60
tatgtttgga gactgctcgg gaagctgtgg tcagtgtgtg tggccacctg tactgttggc 120
catgtcttca tcagtggctg gagacacggc cagaacggca agagtgtcca gtatgtaaag 180
ctgggatcag cagagagaag gttgtcccg tttatggcg agggagccag aagccccagg 240
atcccagatt aaaaactcca ccccgcccc aggcc agaga ccagctccg agagcagagg 300
gggattccag ccatttggtg ataccgggg cttccacttn ttcatttggg gt 352

```

<210> 26

<211> 543

<212> DNA/RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer

<220>

<221> misc_feature

<222> (1)..(543)

<223> ring finger protein 5 (RNF5) gene.

<400> 26

```

atggcagcag cggaggagga ggacgggggc cccgaagggc caaatcgga gcggggcggg 60
gcgggcgca ccttcgaatg taatatatgt ttggagactg ctcggaagc tgtgtcagt 120

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```

gtgtgtggcc acctgtactg ttggccatgt cttcatcagt ggctggagac acggc cagaa 180
cggcaagagt gtccagtatg taaagctggg atcagcagag agaagggtgt cccgctttat 240
gggcgaggga gccagaagcc ccaggatccc agattaaaaa ctccaccccg cccccagggc 300
cagagaccag ctccggagag cagaggggga ttccagccat ttggtgatac cgggggcttc 360
cacttctcat ttggtgttgg tgettttccc ttt ggctttt tcaccaccgt cttcaatgcc 420
catgagcctt tccgccgggg tacaggtgtg gatctgggac agggtcaccc agcctccagc 480
tggcaggatt ccctcttcct gtttctcgcc atcttcttct ttttttggct gctcagtatt 540
tga 543

```

<210> 27

<211> 397

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer

<220>

<221> misc_feature

<222> (1)..(397)

<223> 3' terminal sequence. axl receptor tyrosine
kinase (AXL) gene.

<400> 27

```

gccgtgggggt gggaaagtgg gaag gtggag ttttccccag tggcagtgt tagcttggat 60
cctgagaggg agtaccaggt ggaggggtgt ctcaggcacc atctctctgc cctgggctgc 120
tggggagccc ctatcagcag gctgagcggg gctaggggtt ttggaagggc agaggacata 180
gcntccagca ggatggacct cagccgcagt naggcagcta caggaatcct tagggctctg 240
ctgggttggg gggtcagctc ctctgcagc tccaggggnt tcaggataac ctccaccctc 300
atccatnttn acatagagga tttcgtcagg ctctggggc aggangcaan gcctttcagt 360
ntgttctcca aatcttcccn caactctnta aaacttt 397

```

<210> 28

<211> 418

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer

<220>

<221> misc_feature

<222> (1)..(418)

<223> 5' terminal sequence. axl receptor tyrosine
kinase (AXL) gene.

<400> 28

```

ctgaatgaga acatgtccgt gtgtgtggcg gacttcgggc tctccaagaa gatctaca at 60
ggggactact accgccagga ccgtatcgcc aagatgccag tcaagtggat tgccattgag 120
agtctagctg accgtgtcta caccagcaag agcgaagtgt ggtccttcgg ggtgacaatg 180
tgggagattg ccacaagagg ccaaacccca tatccggggc gtggagaaca gcgagattta 240
tgantatctg cgccaggga atcgccctgaa gcagcct ncg gactgtcttg gatgggantg 300
ttatgccttg atgttcggcg tncctgggga gcttaaattc cccaggggnc ccgnccaatt 360
ttttacaaag cttnccggga agattttttg gagnacacac ttttaagggc tttncctt 418

```

<210> 29

<211> 5015

<212> DNA/RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer

<220>

<221> misc_feature

<222> (1)..(5015)

<223> axl receptor tyrosine kinase (AXL) gene.

<400> 29

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gagtggagtt ctggaggaat gtttaccaga cacagagccc agagggacag cgtccagagc 60
ccagatagag agacacggcc tcaactggctc agcaccaggg tccccctccc cctcctcagc 120
tccctccctg gcccttttaa gaaagagctg atcctctcct ctcttgagtt aacctctgat 180
tgtccaggtg gccctgggct ctggcctggt gggcggaggc aaagggggag ccagggggcg 240
agaaaggggt gcccaagtct gggagttagg gaaggaggca ggggtgctga gaaggcggct 300
gctgggcaga gccggtggca agggcctc cc ctgccgctgt gccaggcagg cagtgcacaa 360
tccggggagc ctggagctgg ggggagggcc ggggacagcc cggcccgtct cccccctccc 420
cgctgggagc ccagcaactt ctgaggaaag tttggcacc atggcgctgg ggtgccccag 480
gatgggcagg gtcccgtctg cctggtgctt ggcgctgtgc ggctgggcgt gcatggcccc 540
caggggcacg caggtgaag aaagtccctt cgtgggcaac ccagggaata tcacaggtgc 600
ccggggactc aggggcaccc ttcggtgtca gctccagggt cagggagagc cccccgaggt 660
acattggctt cgggatggac agatcctgga gctcgggac agcaccaga ccaaggtgcc 720
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ccaggccttc gtgcattggc aagagccccg ggcgccccct cagggtaccc tgttagggta 1560
ccggttggtg tatcaaggcc aggacacccc agaggtgcta atggacatag ggctaaggca 1620
agaggtgacc ctgg agctgc agggggacgg gctctgttcc aatctgacag tgtgtgtggc 1680
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gaaggccttg cctcctgccc aggagcctga cgaaatcctc tatgtcaaca tggat gaggg 2940
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```

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```

<210> 30

<211> 439

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer

<220>

<221> misc_feature

<222> (1)..(439)

<223> 5' terminal sequence. cathepsin b (CTSB)
gene.

<400> 30

```

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cttcttttaa atactcagag gacaggatca ctgtgggaatc gaatcagaag tgggtgctgg 180
aattccacgc accgatcagt actgggaaaa gatctaattc gccgtgggcc tgtcgtgcca 240
gtcctggggg gcgagatcgg ggtagaaatg cattttattc ttttaagttca cgtaaggat 300
acaagttttc agacagggtc tgaaagggan tgggatttng gccaaacatc agacctgttc 360
tttccaaggg gaggaccaag ttcttgggct aacattcccc agcctnttgg ttttaacagt 420
gncaggacag ggcctgtt 439

```

<210> 31
<211> 1996
<212> DNA/RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(1996)
<223> cathepsin b (CTSB) gene.

<400> 31
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cagggctcct gtggctcctg ctgggccttc ggggctgtgg aagccatct c tgaccggatc 540
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gatggtgttg ggagcccttt ggagaacgcc agtctccagg tccccctgca tctatcgagt 1680
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ggtttctcca attga 1996

<210> 32
<211> 492
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(492)

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<223> 3' terminal sequence. protein phosphatase 4
(formerly x), catalytic subunit (PPP4C) gene.

<400> 32

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aacaacaga aaaaagaagg aaaaaaagaa aaaaaaatta ttggaaactt catggttcaa 120
gtggggagag aggaggagga acatggagct aggtctccag gcctctccag agaagtcttc 180
accctcgaag caccctcttg ggggacagca gagccagg ga cagccccccc ccacgcccag 240
cctccgtctg agggaagatg ggcagagtca cagtgggtgc gaggggcccag aagggttggg 300
aggngggcag gggcgggcgg ggtcacagga agtagttcgg ccacggcttt ctttgggagg 360
gggatncccc gtgtcttctt ttgggggagc agccttcaaa gatgatgaaa tctttttctt 420
gggagatgct tcgttc cagc ttnccaagat tggettncca cattttccca cagcgggtaca 480
agttagtttt tg 492
```

<210> 33

<211> 330

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer

<220>

<221> misc_feature

<222> (1)..(330)

<223> 5' terminal sequence. protein phosphatase 4
(formerly x), catalytic subunit (PPP4C) gene.

<400> 33

```
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ctggcactta aggttcgcta tcctgatcgc atcacactga tccgggg caa ccatgagagt 120
cgccagatca cgcaggtcta tggcttctac gatgagtgc tgcgcaagta acggctcggg 180
gactgtgtgg cgctaactgca ctgagatctt tgactacctc agcctgtcag ccatcatcga 240
tngaaagaat cttctgcgtg caggggggcc tctccccctc catccagacc ctgggatcca 300
gattcggaca atcgaccgaa agcaa gaggt 330
```

<210> 34

<211> 1429

<212> DNA/RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer

<220>

<221> misc_feature

<222> (1)..(1429)

<223> protein phosphatase 4 (formerly x),
catalytic subunit (PPP4C) gene.

<400> 34

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gagggggcgg cggccccgac tctgaccgc gccgggggtg ggccatggcg gagatcagcg 120
acctggaccg gcagatcgag cagctgcgtc gctgcgagct catcaaggag agcgaagtca 180
aggccctgtg cgctaaggcc agagagatct tgtagagga gagcaacgtg cagagggtgg 240
actcgccagt cacagtgtgc ggcgacatcc atggacaatt ctatgacctc aaagagctgt 300
tcagagttag tggcgacgtc cctgagacca actacctctt catgggggac tttgtggacc 360
gtggcttcta tagcgtcgaa acgttctctc tgctgctggc acttaaggt t cgctatcctg 420
atcgcatcac actgatccgg ggcaaccatg agagtcgcca gatcacgcag gtctatggct 480
```

22/292

```

tctacgatga gtgcctgcgc aagtacggct cgggtgactgt gtggcgctac tgcactgaga 540
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gcctctcccc ctccatccag accctgg atc agattcggac aatcgaccga aagcaagagg 660
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1429

```

<210> 35

<211> 493

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer

<220>

<221> misc_feature

<222> (1)..(493)

<223> 3' terminal sequence. ests (EST T79867)
gene.

<400> 35

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tcccttcccc aagctagctt tggaa taaat ccacttttct tgtaccagac cccactcttg 120
ttaattggac tctacatgtg gnaagcaact aacttgattt tcggttacaa tataatattc 180
aacttcagta aatcaaagac aattttgaaa gaagccaaag ggaaaaaaat gacctgaaga 240
gtcctgttta anttttagatt tctgaacaca aatctctggc gactaggact gaagcttgac 300
ctnttcttac ccaggaccn ttcccacctc actagggnac tttggantgg gatatatgtg 360
gggaaactct tgggctttcc ccattgtggc accatttcat atcttatggc aaatggtgcc 420
tcctacctcc ctgggncac tcccngttg gatgggnttt gggggaggag ncctgntggg 480
gntttttccc at 493

```

<210> 36

<211> 354

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer

<220>

<221> misc_feature

<222> (1)..(354)

<223> 3' terminal sequence. fibroblast growth
factor receptor 4 (FGFR4) g ene.

<400> 36

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tttttgtttt ttatttcaaa aaaataattt ataaaacgcc atttgcctct gttttcggca 60
ggcttccagc ttctctgggc tcaggggcaa tgctcccgct aagacgctgg ggcagcagca 120

```

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gcagggggag gtntggggaa aggggggttca gaggccaga acctcctgct ggtattggga 180
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 aagcgccaag gtccaagaag ccgagcagaa ccttgacatt tggggccatc aggacanagg 300
 cacggcagct cccaaggga aggggcacgg ccttngggac angggcacag caac 354

<210> 37
 <211> 336
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:primer

<220>
 <221> misc_feature
 <222> (1)..(336)
 <223> 5' terminal sequence. fibroblast growth
 factor receptor 4 (FGFR4) gene.

<400> 37
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 ggcagcagcg cctcccaga ggcctacctt caagcagctg gtggaggcgc tggacaaggt 120
 ctgctggccg tctctgagga gtacctgac ctcgcctga ccttcggacc ctattcccc 180
 tctggtggg aacgccagca gcacctgctt cctccagcga ttctgtcttc agccacgacc 240
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 ctnaagggtt ttgcaaggga catagggttg gtgggc 336

<210> 38
 <211> 3015
 <212> DNA/RNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:primer

<220>
 <221> misc_feature
 <222> (1)..(3015)
 <223> fibroblast growth factor receptor 4 (FGFR4)
 gene.

<400> 38
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ctgagcccag agaagctgga agcctgccga aaacaggagc aaatggcggt ttataaa tta 3000
tttttttgaa ataaa

```

3015

<210> 39

<211> 252

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer

<220>

<221> misc_feature

<222> (1)..(252)

<223> 3' terminal sequence. ectonucleotide
pyrophosphatase/phosphodiesterase 2 (autotaxin)
(ENPP2) gene.

<400> 39

```

gtgtgattta ttatgtttaa gattggttta taaggcttaa atatatctgt catagttaac 60
agttaacagc aaataaaggc aactttacaa aatcagtggt tccatacagt acaggactaa 120
atgtggcaac tgtgcattgg aaaattaata ttctctcaat gcaaatntca aatctgcagc 180
accatttaga agcttccact aaaaactcaa gctgcagtat ttattacang ctctaactng 240
aacacanggc ta

```

252

<210> 40

<211> 382

25/292

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer

<220>

<221> misc_feature

<222> (1)..(382)

<223> 5' terminal sequence. ectonucleotide
pyrophosphatase/phosphodiesterase 2 (autotaxin)
(ENPP2) gene.

<400> 40

```

ctnacnttca aacgganntg gaa ttatttc caaagggtat tggatgaagaa atatgcttcg 60
gaaagaaatg gagttaacgt gataagtggg ccaatcttcg actatgacta tgatggctta 120
catgacacag aagacaaaat aaaacagtac gtggaaggca gttccattcc tgttccaact 180
cactactaca gcatcatcac cagctgtctg gattttactc agcctgccga caagtgtgac 240
ggccctctct ctgtgtcctc ctcatcctg cctcaccggc ctgacaacga ggagagctgc 300
aatagctcag aggacgnatt caaaatgggt agnaggaact catgaaggnt gcacacagct 360
agggtncgtt gacctttgna cc                                     382

```

<210> 41

<211> 2592

<212> DNA/RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer

<220>

<221> misc_feature

<222> (1)..(2592)

<223> ectonucleotide
pyrophosphatase/phosphodiesterase 2 (autotaxin)
(ENPP2) gene.

<400> 41

```

atggcaagga ggagctcgtt ccagtcgtgt ca gataatat ccctgttcac ttttgccgtt 60
ggagtcaata tctgcttagg attcactgca catcgaatta agagagcaga aggatgggag 120
gaaggctctc ctacagtgtc atcagactcc ccctggacca acatctccgg atcttgcaag 180
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tgggagtgta ctaaggacag atgtggggaa gtcagaaatg aagaaaatgc ctgtcactgc 360
tcagaggact gcttggccag gggagactgc tgtaccaatt accaagtggg ttgcaaagga 420
gagtcgcatt gggttgatga tgactgtgag gaaataaagg ccgcagaatg ccc tgcaggg 480
tttgttcgcc ctccattaat catcttctcc gtggatggct tccgtgcac atacatgaag 540
aaaggcagca aagtcatgcc taatattgaa aaactaaggc cttgtggcac aactctccc 600
tacatgaggc cgtgtaccc aactaaaacc tttcctaact tatacacttt ggccactggg 660
ctatatccag aatcacatgg aattgttggc a attcaatgt atgactctgt atttgatgcc 720
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gctaaatatg accccaaagc cattattgcc aatctcacgt gtaaaaaacc agatcagcac 1260
tttaagcctt acttgaagaa gcaccttccc aaacgtttgc actatgccaa caacagaaga 1320

```

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gtcaacagca tgcagactgt ttttgtaggt tatggcccaa catttaagta caagactaaa 1500
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aagatgcaca cagctagggt gcgtgacatt gaacatctca ccagcctgga cttcttcgga 2520
aagaccagcc gcagctacc agaaatcctg acactcaaga catacctgca tacatatgag 2580
agcgagattt aa 2592

```

<210> 42

<211> 467

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer

<220>

<221> misc_feature

<222> (1)..(467)

```

<223> 3' terminal sequence. v-rel avian
      reticuloendotheliosis viral oncogene homolog a
      (nuclear factor of kappa light polypeptide gene
      enhancer in b-cells 3 (p65)) (RELA) gene.

```

<400> 42

```

acagatttat tagttcagag tagaaagagc aagagtccaa gtgctttgat tgttcagtaa 60
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cctactatta aggcacttga gaagaggagg agcaaggaag tccagagacca aacccttct 180
ggatccnggg ngagagccag tgctgttgcn tggtnctcct tcagccatgg ttgagcaagg 240
aaagagccgg cagagacctc tgtagggcag gaaggccagc cctcaaacg ctggtnttag 300
ggcacagggg acaatgccag tgccatacag ggcctggat ctgggggcgt tattttgatt 360
aagctgtaat gaatccatga tgggaaggac acttgataag gcttnttggg gctcaagggn 420
ctttacctcc agcctgcttc tntctctagg gngagtaccc agaagct 467

```

<210> 43

<211> 2444

<212> DNA/RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer

<220>

<221> misc_feature

<222> (1)..(2444)

<223> v-rel avian reticuloendotheliosis viral
oncogene homolog a (nuclear factor of kappa light
polypeptide gene enhancer in b-cells 3 (p65))
(RELA) gene.

<400> 43

```
ggcagcaggc ggggcccgggt cgcagctggg cccgcggcat ggacgaactg ttccccctca 60
tcttcccggc agagcagccc aagcagcggg gcatgcgctt ccgctacaag tgcgaggggc 120
gctccgcggg cagcatccca ggcgagagga gcacagatac caccaagacc caccaccacca 180
tcaagatcaa tggctacaca ggaccaggga cagtgcgcat ctccctggtc a ccaaggacc 240
ctcctcaccg gcctcaccoc cagcagcttg taggaaagga ctgccgggat ggcttctatg 300
aggctgagct ctgcccgagc cgctgcatcc acagtttcca gaacctggga atccagtgtg 360
tgaagaagcg ggacctggag caggctatca gtcagcgcat ccagaccaac aacaaccct 420
tccaagttcc tatagaagag cagcgtgggg actacgacct gaatgctgtg cggtctgtct 480
tccaggtgac agtgcgggac ccacaggca ggccccctcg cctgccgcct gtcctttctc 540
atcccatctt tgacaatcgt gcccccaaca ctgccgagct caagatctgc cgagtgaacc 600
gaaactctgg cagctgcctc ggtggggatg agatcttctt actgtgtgac aagggtgcaga 660
aagaggacat tgaggtgtat ttcacgggac caggctggga ggcccgagga tccttttcgc 720
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caggaggeat agtttttagt gaacaatcaa agcacttgga ctcttgctct ttctactctg 2400
aactaataaa gctgttgcca agctggacgg cagcagctcg tgcc 2444
```

<210> 44

<211> 381

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer

<220>

<221> misc_feature

<222> (1)..(381)

<223> 5' terminal sequence. il2-inducible t-cell
kinase (ITK) gene.

<400> 44
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ggatcatgaa caactttatc ctcttggaag aacagctcat caagaaatcc caacaagaga 120
agaactttct cctcgaactt taaagtccgc ttctttgtgt taaccaaaagc cagcctgg ca 180
tactttgaag atcgtcatgg gaagaagcgc acgctgaagg ggtccattga gctctcccga 240
attcaaatgt gttgaggttg tgaaaagtga catcagcatc ccatgccact attaaatacc 300
cgttttcagg tnggtgcatg acaacttacc tcctnttatg gtgtttgntt ccagntogtg 360
aggaggccgg ncagcggtng g 381

<210> 45
<211> 6381
<212> DNA/RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(6381)
<223> il2-inducible t-cell kinase (ITK) gene.

<400> 45
cgcgcccgct atatataatg cagcatcaca ccatgtaggg catttactct tattttatac 60
attcagatat gtttgaaaca ttcttaaggc tacaaaacag aacatagaaa aataaacagg 120
aatatattca acacttaca aaagtgtatg gataaagaat ataaagtact agtttccttt 180
taacacttca aaagatatgt atatatactt ttttttaca gtaacatcac aaatgctcac 240
atcttcacat gctcttaaag tattatttgt actcagtgtg aggctattat cgtttttcat 300
acataaaatt ttctagctct gtaacacaat gcaattttta atccattcag taagttcaac 360
cccaaagttg ccgcttocca gcattaagac atgcaccac cctcttcta agattttcta 420
aacttgtatt tcggggagaa agacctct tt taaaaaataa tccaattagt gggagagtaa 480
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ttattagat tttaaacaaa caatagcatt tagacataaa gtaggaagca aaatacagta 600
aacagaaata gtgtagccaa atatcattct cttcagctac cttaagtaaa agacaaaaca 660
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30/292

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<211> 274

<212> DNA

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34/292

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<210> 48

<211> 438

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer

<220>

<221> misc_feature

<222> (1)..(438)

<223> 3' terminal sequence. colony stimulating
factor 1 (macrophage) (CSF1) gene.

<400> 48

```

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tagatattta aatgacttta tataaaataa ttcaccactt ccaagtataa aaacaaaatc 120
tcacagtgcg tgancaatgt cctctc ttga cttctcagag aacagaaggg gttcctgagc 180
aggtagcctg gggggacacc agaggngcct ctggggctcc tcctgctctg atgccaccaa 240
gtgctcaaaa agagcttctg cagtgggggt gggattgctt ttttgacctt taaaatatta 300
tatgtttaag gtaggggggg atgaaggggg gaatgccctt tttatttttc ttcccathtt 360
aaaaatatgt gttttctagg catccaaata tagggggctg tggcctggga gggctaggcc 420
ccctttgccca ggttcact

```

438

<210> 49

<211> 390

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer

<220>

<221> misc_feature

<222> (1)..(390)

<223> 5' terminal sequence. colony stimulating factor 1 (macrophage) (CSF1) gene.

<400> 49

```
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gggggagggt ctgcactccc aaaccccagc gcagtgtcct ttccctgc tg ccgacagaac 120
ctggggctga gcaggttatc cctgtcagga gccctgggac tgggctgcat ctacgcccc 180
cctggcatgg tatccagctc ccattccactt cttcaccctt ctttctcct gacctgggt 240
caacagtgat ggaccttcca actcttcacc caccctctt accattcacc tctaaaccag 300
gggaagccag gggtngggag agcant cagg gagagccagg gcttcagttt tccaattgct 360
ggggaggggc ttccattttt tggggccagc 390
```

<210> 50

<211> 2475

<212> DNA/RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer

<220>

<221> misc_feature

<222> (1)..(2475)

<223> colony stimulating factor 1 (macrophage) (CSF1) gene.

<400> 50

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caccagcga gcgagcgagc gagcgagggc ggccgacgcy ccgggcggg acccagctgc 120
ccgtatgacc gcgcggggcg ccgcggggcg ctgccctccc acgacatggc tgggctccct 180
gtctgtgttg gtctgtctcc tggcgagcag gagtatcacc gaggagggtg cggagtactg 240
tagccacatg attgggagtg gacacctgca gtctctgcag cggctgattg acagtcagat 300
ggagacctcg tgccaaatta catttgagtt tgtagaccag gaacagttga aagatccagt 36 0
gtgctacctt aagaaggcat ttctcctggt acaagacata atggaggaca ccatgcgctt 420
cagagataac acccccattg ccctcgccat tgtgcagctg caggaaactct ctttgaggct 480
gaagagctgc ttcaccaagg attatgaaga gcatgacaag gcctgcgtcc gaactttcta 540
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ccttgacaag gactggaata ttttcagcaa gaactgcaac aacagctttg ctgaatgctc 660
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cagtgaccgg gctctgtctt ccctcatca gccctcggc ccctccatgg ccctgtggc 780
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acatgagagg cagtccgagg gatcctccag ccgcagctc caggagtctg tcttccacct 1620
gctggtgccc agtgtcatcc tggctctgct ggccgtcgga ggctcttg t tctacagggtg 1680
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```

gaggcgggcg agccatcaag agcctcagag agcggattct cccttggagc aaccagaggg 1740
cagccccctc actcaggatg acagacaggt ggaactgccg gtgtagaggg aattctaaga 1800
ccccccacca tcttgacac tctcgtttgt caatgtccct ctgaaaatgt gacgcccagc 1860
cccgacaca gtactccaga tgttgtctga ccagctcaga gagagtacag tgggactgtt 1920
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ctcttcccc tcccaccaa gccacagcc agcccatcag gaagccttc ttgcttctcc 2400
acaaccttct gactgtcttt tcagtcagtc cccctgctct tttgtatttg gctaatagta 2460
tatcaatttg cactt 2475

```

<210> 51

<211> 397

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer

<220>

<221> misc_feature

<222> (1)..(397)

<223> 3' terminal sequence. villin 2 (ezrin)
(VIL2) gene.

<400> 51

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atcngttgaa tagttgattc catacatttc cagg tcttga gcaatcttca ggtattccaa 60
catagcatta tctttgagca tcccacggtg ttccgcatgc cacacctgga tccggtcctc 120
ccactggctc ctggtaagtt tgtgtctggtc catcactctt tgagggatca nccgctcaga 180
gctgaggtag ccagacttgt gcacttcttt gttgtagtcc ccaaacttgg cctgcacagc 240
gtaggggacc caagagcacg gcagtctcag ggggggcagt agatctcacc gctaagggat 300
tcttttctt cacttnggag ggaggaaaag tttctggggt gatgtcctgg ggatgagctt 360
ccttcagcca catctttcag ggnaggact ttnggcc 397

```

<210> 52

<211> 468

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer

<220>

<221> misc_feature

<222> (1)..(468)

<223> 5' terminal sequence. villin 2 (ezrin)
(VIL2) gene.

<400> 52

```

ggacgaggca gggcgggcg ggcgtctaag ggttctgtc tgactccagg ttgggacagc 60
gtcttcgctg ctgctggata gtcgtgtttt cggggatcga ggatactcac cagaaacoga 120
aatgccgaa accaatcaat gtccgagtta ccaccatgga tgcagagctg gagtttgcaa 180
tccagccaaa tacaactgga aaacagcttt ttgatcaggt ggtaaagact atcggcctcc 240
gggaagtgtg gtactttggc ctccactatg tggatnaata aaggatttcc tacctgg gct 300
gaagctggat aagaaggtgt ctgcccagga ggtcaggaag gagaatcccc tccagttcaa 360

```

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gttccggggc caagttctac cctgaagatg tgggctgagg agctcattcc agggacattc 420
 acccagaaat tttnttttnt ccaagtgaag gaagggattc ttaggcgn 468

<210> 53

<211> 3064

<212> DNA/RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer

<220>

<221> misc_feature

<222> (1)..(3064)

<223> villin 2 (ezrin) (VIL2) gene.

<400> 53

aggcagggcg ggcgggcgct ctaaggggtc tgctctgact ccaggttggg acagcgtctt 60
 cgctgctgct ggatag tctg gttttcgggg atcgaggata ctcaccagaa accgaaaatg 120
 ccgaaaccaa tcaatgtccg agttaccacc atggatgcag agctggagtt tgcaatccag 180
 ccaaatacaa ctggaaaaca gctttttgat caggtggtaa agactatcgg cctccgggaa 240
 gtgtgtgact ttggcctcca ctatgtggat aataaaggat ttctacctg gctgaagc tg 300
 gataagaagg tgtctgcccc ggaggtcagg aaggagaatc ccctccagtt caagttccgg 360
 gccaaagttct accctgaaga tgtggctgag gagctcatcc aggacatcac ccagaaactt 420
 ttcttctctcc aagtgaagga aggaatcctt agcgatgaga tctactgcc cctgagact 480
 gccgtgctct tggggctcta cgctgtgcag gccaaag tttg gggactacaa caaagaagtg 540
 cacaagtctg ggtacctcag ctctgagcgg ctgatccctc aaagagtgtg ggaccagcac 600
 aaacttacca gggaccagtg ggaggaccgg atccagggtg ggcattgcga acaccgtggg 660
 atgctcaaag ataatgctat gttggaatac ctgaagattg ctcaggacct ggaaatgtat 720
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```

aacattagtt ttaaaaaggg aaagttttgt tctgtatatt ttgttacctt ttacagaata 2640
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nagtgggtgga gctggacctg cctgctgcag ctgcagtcac gtgtaaacag gattattatt 2760
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gcccactcat tccttctcgt gcaactgcttt ctcttcaca gctaagatgc catgtgcagg 3000
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aaaa
3064

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<210> 54
 <211> 435
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:primer

<220>
 <221> misc_feature
 <222> (1)..(435)
 <223> 3' terminal sequence. adenomatosis polyposis
 coli (APC) gene.

```

<400> 54
tgcataaata ccaatttttc cctgatgtaa gtttagtcag tttataatct agaaatgatt 60
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attaaaggaa gttgggatgg gatgctactt taaatacatg taaaacatac tgtacaaaca 180
tacttggctt tactattttt ttcctaacca tcaagagtgc ctcccaaat aa gncagtg 240
aagacaaagt atactatcaa atatgggctt ccnggaacaa aaacctctt aacaaggnt 300
ccaaacccta tttaccaaaa tttcccggt cttttaaggt ttccatttg aaacaaaaat 360
gtctatatgg ccggttggtg attancatgg ggnttttctt gggnttcctt cttccnct 420
ctttttaacc ggtgg
435

```

<210> 55
 <211> 414
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:primer

<220>
 <221> misc_feature
 <222> (1)..(414)
 <223> 5' terminal sequence. adenomatosis polyposis
 coli (APC) gene.

```

<400> 55
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tgtttgggtg agaattgagg actgtcccat taacaatcct agatctggaa gatctccac 180
aggtaatact ccccggtgga ttg acagtgt ttcagaaaag gcaaatccaa acattaaaga 240
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ccgtggggtt tnggaaaatc gcctggaact cttttatttc aggtgggatg cccctgacca 360
aaaaggganc tttnggttna aaccggggnc aaattattcc tgttcctgt tttc
414

```

<210> 56

<211> 10383
<212> DNA/RNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer

<220>

<221> misc_feature

<222> (1)..(10383)

<223> adenomatosis polyposis coli (APC) gene.

<400> 56

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aagataattc caatcatctt acaaaaactgg aaactgaggc atctaataatg aaggaagtac 180
ttaaacaact acaaggaagt attgaagatg aagctatggc ttcttctgga cagattgatt 240
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ggtcaaaaat gtccctccgt tcttatggaa gccgggaagg atctgtatca agccgttctg 360
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cccatacaca ttcaaacact tacaatttca ctaagtogga a aattcaaat aggacatgtt 2880
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 aagatgatga aagtaagttt tgcagttatg gtcaataccc agccgaccta gcccataaaa 3060
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 cat 10383

<210> 57
 <211> 404
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:primer

<220>
 <221> misc_feature
 <222> (1)..(404)
 <223> 5' terminal sequence. mucin 1, transmembrane
 (MUC1) gene.

<400> 57
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 tgctgggtctg tgttctgggt gcgctggcca ttgtctatct cattgccttg gctgtctgtc 180
 agtgccgccc aaagaactac gggcagctgg acatctttcc ag cccgggat acctaccacc 240
 ctatgagcga gtacccacc taccacacc atggggcgct atgtgcccc taggcagtag 300
 cgatcgtagc cccatagaga aggtttttng caggtaatng gttggcagca gcttttttta 360
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<210> 58
 <211> 1721
 <212> DNA/RNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:primer

<220>
 <221> misc_feature
 <222> (1)..(1721)
 <223> mucin 1, transmembrane (MUC1) gene.

<400> 58
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 acaggttctg gtcattgcaag ctctacccca ggtggagaaa aggagacttc ggctacccag 180
 agaagttcag tgcccagctc tactgagaag aatgctgtga gtatgaccag cagcgtactc 240
 tccagccaca gcccgggttc aggtctctcc accactca gg gacaggatgt cactctggcc 300
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 ccagtcacca ggccagccct gggctccacc accccgccag cccacgatgt cacctcagcc 420
 ccggacaaca agccagcccc gggctccacc gccccccag cccacggtgt cacctcggcc 480
 ccggacacca ggccgcccc gggctccacc gccccccag cccacggtgt cacctcggcc 540
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 ccggacacca ggccgcccc gggctccacc gccccccag cccatgggtgt cacctcggcc 660
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 gtacctctc tcacctctc caatcacagc acttct ccc agttgtctac tgggggtctct 960
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caattgactc tggccttccg agaaggtaac atcaatgtcc acgacgtgga gacacagttc 1200
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<210> 59

<211> 359

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer

<220>

<221> misc_feature

<222> (1)..(359)

<223> 3' terminal sequence. insulin-like growth factor 2 (somatomedin a) (IGF2) gene.

<400> 59

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tagtttaatg ttttgatttt ttatgtgtgg ggataattgg ggataatttg gggggagggt 180
atgtgaaggg tgtttaaagc caatcgattt tgtacatgtt tgaagatgct gctgtgcttc 240
ctcagcccca tggagggggc cgaggagagt agcctgttcc ggggaggcng ggcacgggga 300
ctgggtcang agaagcccca gggggaccgt ngaccccaaga gattttcggg atggaaccc 359

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<210> 60

<211> 410

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer

<220>

<221> misc_feature

<222> (1)..(410)

<223> 5' terminal sequence. insulin-like growth factor 2 (somatomedin a) (IGF2) gene.

<400> 60

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gtcgaccct cgcacgtgc ttccggacaa ctccccaga taccctgtgg gcaagttctt 60
ccaatatgac acctgggaag cagtccaccc agcgccctga ggggcncctg ctgccctcct 120
gcgtgccgc cgggggtcag tgetcgccaa ggagctcgag gcgttcaggg aggccaaacg 180
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gatgggccag caatcggaag tgagcaaat tgccgcaagt ntttcagccc ggcgnacca 300
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<210> 61
<211> 1356
<212> DNA/RNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer

<220>

<221> misc_feature

<222> (1)..(1356)

<223> insulin-like growth factor 2 (somatomedin a)
(IGF2) gene.

<400> 61

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ccgaaaagta caacatctgg ccgccccag ccgaagaca gcccgctct cctggacaat 360
cagacgaatt ctccccccc cccaaaaa aa aaaagccatc cccccgctct gcccgctgc 420
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cctcgcccc ctccatcggg ctgaggaagc acagcagcat cttcaaacat gtacaaaatc 1320
gattggcttt aaacaccctt cacataccct ccccc 1356
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<210> 62
<211> 474
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer

<220>

<221> misc_feature

<222> (1)..(474)

<223> 3' terminal sequence. egf-like module
containing, mucin-like, hormone receptor-like
sequence 1 (EMR1) gene.

<400> 62

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tttaggagna aatcagtcag acaggcgaca aatcatttat tgagaggttc tctgtgtcag 60
gcgtatgata ggcgctggag gggcacgctt agaaccatgc accaacaagg gcaggagaaa 120
acaaaatggg agccaggtgt tcttggtcat gccattgaat ttgggtctgt tctcagaaac 180
tctggaattg aagaagttgc aganaccgaa gataaaatgg tcgtttggag cagaaacacc 240
tgattttctc tcagtgcata caaccacagg aagacggccc ccaacatt ct tccccagagg 300
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gtttctggggc tgggtgggga tccctcattt cccatgttaa gcttgaggaa gagatttcag 360
 ggtaggctcc ctgcagggaa actacttgtc cctcaacttt nggcctccca tagcatattt 420
 tnaaagccag naagggtctt ttaaccctt ntttggaag cccgattggc att 474

<210> 63
 <211> 457
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:primer

<220>
 <221> misc_feature
 <222> (1)..(457)
 <223> 5' terminal sequence. egf-like module
 containing, mucin-like, hormone receptor-like
 sequence 1 (EMR1) gene.

<400> 63
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 cagctcccag tccagacct caaggatctt gctgtctcc atgccatccg cttccaagac 120
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 catgnaccag gaacatcggg gttaacctt tttgttt 457

<210> 64
 <211> 3149
 <212> DNA/RNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:primer

<220>
 <221> misc_feature
 <222> (1)..(3149)
 <223> egf-like module containing, mucin-like,
 hormone receptor-like sequence 1 (EMR1) gene.

<400> 64
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<210> 65

<211> 412

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer

<220>

<221> misc_feature

<222> (1)..(412)

<223> 3' terminal sequence. k1aa0427 gene product
(K1AA0427) gene.

<400> 65

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<220>

<223> Description of Artificial Sequence:primer

<220>

<221> misc_feature

<222> (1)..(442)

<223> 5' terminal sequence. k1aa0427 gene product
(K1AA0427) gene.

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<210> 67

<211> 5737

<212> DNA/RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer

<220>

<221> misc_feature

<222> (1)..(5737)

<223> k1aa0427 gene product (K1AA0427) gene.

<400> 67

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<210> 68

<211> 377

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:primer

<220>

<221> misc_feature

<222> (1)..(377)

<223> 3' terminal sequence. spleen tyrosine kinase
(SYK) gene.

<400> 68

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<210> 69

<211> 323

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:primer

<220>

<221> misc_feature

<222> (1)..(323)

<223> 5' terminal sequence. spleen tyrosine kinase
(SYK) gene.

<400> 69

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50/292

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<210> 70

<211> 2541

<212> DNA/RNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:primer

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<221> misc_feature

<222> (1)..(2541)

<223> spleen tyrosine kinase (SYK) gene.

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gacattgcag agtggcctag agcactctca cccaagcgg ccttttccaa atgcccagg 2400
atgccttagc atgtgactcc tgaagggaag gcaaggcag aggaatttgg ctgcttctac 2460
ggccatgaga ctgatccctg gccactgaaa agctttctg aca ataaaaa tgttttgagg 2520
ctttaaaaaa aaaaaaaaaa a 2541

<210> 71
 <211> 312
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:primer

<220>
 <221> misc_feature
 <222> (1)..(312)
 <223> 5' terminal sequence. interleukin 7 receptor
 (IL7R) gene.

<400> 71
 taacatcttt gtaagaaacc aagaaaaaat ttaaattgtga gtttcaatcc tgaaagtttc 60
 ctggactgcc agattcatag ggtggatgac attcaagcta gagatgaagt ggaagggttt 120
 ctgcaagata cgtttccctca gcaactagaa gaatctga ga agcagaggct tngaggggat 180
 gtgcagagcc ccaactgccc atctgaggat gtatgcatca ctccaggaaa gctttgggaa 240
 ggagattcat cctcacatg cctgggctng ggaatgttca gtgcatgtga cgcccctatt 300
 tttctccttt t 312

<210> 72
 <211> 1658
 <212> DNA/RNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:primer

<220>
 <221> misc_feature
 <222> (1)..(1658)
 <223> interleukin 7 receptor (IL7R) gene.

<400> 72
 ctctctctct atctctctca gaatgacaat tctaggtaca actttttggca tgggt tttttc 60
 tttacttcaa gtcgtttctg gagaaagtgg ctatgctcaa aatggagact tggaagatgc 120
 agaactggat gactactcat tctcatgcta tagccagttg gaagtgaatg gatcgagca 180
 ttcaactgacc tgtgcttttg aggaccaga tgtcaacacc accaatctgg aatttgaaat 240
 atgtggggcc ctgctggagg taaagtgcct gaa tttcagg aaactacaag agatatattt 300
 catcgagaca aagaaattct tactgattgg aaagagcaat atatgtgtga aggttggaga 360
 aaagagtcta acctgcaaaa aaatagacct aaccactata gttaaaccctg aggtcctttt 420
 tgacctgagt gtcactctatc gggaaggagc caatgacttt gtgggtgacat ttaatacatc 480
 acacttgcaa aagaagtatg taaaagtttt aatgcatgat gtagcttacc gccaggaaaa 540
 ggatgaaaac aaatggacgc atgtgaattt atccagcaca aagctgacac tcctgcagag 600
 aaagctccaa ccggcagcaa tgtatgagat taaagttcga tccatccctg atcactattt 660
 taaaggcttc tggagtgaat ggagtccaag ttattacttc agaactccag aga tcaataa 720
 tagctcaggg gagatggatc ctatcttact aaccatcagc attttgagtt ttttctctgt 780
 cgctctgttg gtcattcttg cctgtgtgtt atggaaaaaa aggattaagc ctatcgtatg 840
 gccagctctc cccgatcata agaagactct ggaacatctt tgtaagaaac caagaaaaaa 900
 ttttaaatgt agtttcaatc ctgaaagttt c ctggactgc cagattcata ggggtgatga 960
 cattcaagct agagatgaag tggaaggttt tctgcaagat acgtttcctc agcaactaga 1020
 agaactctgag aagcagaggc ttggagggga tgtgcagagc cccaactgcc catctgagga 1080
 tgtagtctgc actccagaaa gctttggaag agattcatcc ctccatgccc tggctgggaa 1140
 tgtcagtga tgtgacgccc ctattctctc ctcttccagg tccctagact gcaggagagag 1200
 tggcaagaat gggcctcatg tgtaccagga cctcctgctt agccttggga ctacaaacag 1260
 cacgtgccc cctccatttt ctctccaatc tggaatcctg acattgaacc cagttgctca 1320

52/292

```

gggtcagccc attcttactt ccctgggac aaatcaagaa gaagca tatg tcaccatgtc 1380
cagcttctac caaaaccagt gaagtgtgaa aaaccagac tgaacttacc gtgagcgaca 1440
aagatgattt aaaagggaag tctagagtgc ctagtctccc tcacagcaca gagaagacaa 1500
aattagcaaa accccactac acagtctgca agattctgaa acattgcttt gaccactctt 1560
cctgagttca gtggcactca acatgagtca agagcctcct gcttctacca tgtggatttg 1620
gtcacaaggt ttaaggtgac ccaatgattc agctattt 1658

```

<210> 73

<211> 236

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer

<220>

<221> misc_feature

<222> (1)..(236)

<223> 3' terminal sequence. v-myc avian
myelocytomatosis viral oncogene homolog (MYC)
gene.

<400> 73

```

taaaaacaat agaaaaaaat caactttaaa aagcaaaatg tacttaaata aaaaaatta 60
gggtttatag tacctataat actaggnact atatactagg attgaaa ttc tgtgtaactg 120
ctataaacgt tttattaaag ttatttacat ttaatgggca atatttacag aggaaacatt 180
gtgtaaatct taaaattttt taaaanccaa ttcttaaata ccaaatctgt taaggg 236

```

<210> 74

<211> 413

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer

<220>

<221> misc_feature

<222> (1)..(413)

<223> 5' terminal sequence. v-myc avian
myelocytomatosis viral oncogene homolog (MYC)
gene.

<400> 74

```

acgtctccac acatcagcac aactacgcag cgctccctc cactcggaag gactatcctg 60
ctgccaagag ggtcaagttg gacagtgtca gagtcctgag acagatcagc aacaaccgaa 120
aatgcaccag cccaggttcc tcggacaccg aggagaatgt caagaggcga acacacaacg 180
tcttgggagc gccagaggag gaacgagcta aaacggagct tttttgcct gcgtgaccag 240
atcccgaggt tgggaaaaca atgaaaaggc cccaaggta gttattcctt taa aaaagcc 300
acagcntaca tctgtttccg ttccaaggca ggagggagcc aaaagttcat tttnttgaag 360
gagggntttt ttttccgggn aacgacgag aaccattttt aaacacaant ttt 413

```

<210> 75

<211> 2121

<212> DNA/RNA

<213> Artificial Sequence

<220>

53/292

<223> Description of Artificial Sequence:primer

<220>

<221> misc_feature

<222> (1)..(2121)

<223> v-myc avian myelocytomatosis viral oncogene
homolog (MYC) gene.

<400> 75

```
ctgctcgcg cgcgccaccgc cgggccccgg cgcgccctgg ctccccctcct gcctcgagaa 60
gggcagggtc tctcagaggc ttggcgggaa aaaagaacg g agggagggat cgcgctgagt 120
ataaaagccg gttttcgggg ctttatctaa ctcgctgtag taattccagc gagaggcaga 180
gggagcgagc gggcgggcgg ctaggggtga agagccgggc gagcagagct gcgctgcggg 240
cgtcctggga agggagatcc ggagcgaata gggggcttcg cctctggccc agccctcccg 300
cttgatcccc caggcca gcg gtccgcaacc cttgccgcat ccaagaaact ttgcccatag 360
cagcggggcg gcactttgca ctggaactta caacaccga gcaaggacgc gactctcccg 420
acgcggggag gctattctgc ccatttgggg acacttcccc gccgctgccg ggaccgcgtt 480
ctctgaaagg ctctccttgc agctgcttag acgtggatt ttttctgggt agtggaaaa c 540
cagcagctc ccgcgacgat gcccctcaac gttagcttca ccaacaggaa ctatgacctc 600
gactacgact cgggtgcagc gtattcttac tgcgacgagc aggagaactt ctaccagcag 660
cagcagcaga gcgagctgca gccccggcg cccagcgagg atatctggaa gaaattcgag 720
ctgctgcccc cccgcgccct gtcccttagc cgcgcgt ccg ggctctgctc gccctcctac 780
gttgcggtca cacccttctc cttcggggga gacaacgacg gcggtggcgg gagcttctcc 840
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ttcatctgcy acccgacga cgagacctc atcaaaaaca tcatcatcca ggactgtatg 960
tggagcggct tctcg gccgc cgccaagctc gtctcagaga agctggccto ctaccaggct 1020
gcgcgcaaag acagcggcag ccggaacccc gccgcggcc acagcgtctg ctccacctcc 1080
agcttgtacc tgcaggatct gagcgcggcc gcctcagagt gcctcgacc ctcggtgggtc 1140
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cagatcagca acaaccgaaa atgcaccagc cccaggtcct cggacaccga ggagaatgtc 1620
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tctgaagagg acttggttgc gaaacgacga gaacagttga aa cacaact tgaacagcta 1860
cggaactctt gtgcgtaagg aaaagtaagg aaaacgattc cttctaacag aaatgtcctg 1920
agcaatcacc tatgaacttg tttcaaatgc atgatcaaat gcaacctcac aaccttgggt 1980
gagtcttgag actgaaagat ttagccataa tgtaaaactgc ctcaaatttg actttgggca 2040
taaaagaact tttttatgct taccatcttt tttttttctt taacagattt gtatttaaga 2100
attgttttta aaaaatttta a 2121
```

<210> 76

<211> 260

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer

<220>

<221> misc_feature

<222> (1)..(260)

<223> 3' terminal sequence. gata-binding protein 3
(GATA3) gene.

54/292

<400> 76

```

tcacagcact agagaccctg ttaaataggg gatatgagtc agaatggctt attcacagat 60
ggggtccaga ttcagtgggt ggaacacaga caccacagtg agtccttttg caaagtggca 120
aacataattt tgcctttctgc cttcaaaaac atatatccat cgcgttttagg cttcatgata 180
ctgctcctgc aaaaatgcaa gtcgaaaggg actgcaggga ctctcgtggt ggggccctgt 240
gagcatcgag cagggtctctt                                     260

```

<210> 77

<211> 409

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer

<220>

<221> misc_feature

<222> (1)..(409)

<223> 5' terminal sequence. gata-binding protein 3 (GATA3) gene.

<400> 77

```

cattctgggt catagatggc atcttttcac tgtgtttctca cattgggtgga aaggaagaac 60
tctggtttct tcaacttctt ataagggcac caatcttatt cagcagggct tcaccctoga 120
aataatcacg tcctcaaaaac cccacacctt taatattcta ataccatcac gtgaggggctt 180
aggtttcaac ataagaattc ggtggtggtg ggggttngggg gagagggaaa caaacatcca 240
gaccagaaac cgaaaaatgt ctagcaaate caaaaagtgc aaaaaagt gc atgactcact 300
ggaggacttc cccaagganc agctncgttt taaccgggac cgccttttc caggacacat 360
gttccttccc tggnggccac atnttgnccc ttnaggccan tccagggca 409

```

<210> 78

<211> 2365

<212> DNA/RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer

<220>

<221> misc_feature

<222> (1)..(2365)

<223> gata-binding protein 3 (GATA3) gene.

<400> 78

```

tcccagcctt cccatccccc caccgaaagc aaatcattca acgacccccg accctccgac 60
ggcaggagcc cccgcacctc ccaggcggac cgcccttccc tcccgcgcgc ggttccgggc 120
ccggcgagag ggcgcgacga cagccgaggc catggagggt acggcggacc agccgcgctg 180
ggtgagccac caccaccccg ccgtgctcaa cgggcagcac ccggacacgc accaccggg 240
cctcagccac tcctacatgg acgcggcgca gtaccgctg ccggaggagg tggatgtgct 300
ttttaacatc gacggtcaag gcaaccacgt cccgccttac ta cggaaact cggtcagggc 360
cacggtgcag aggtaccctc cgaccacca cgggagccag gtgtgccgcc cgctctgtct 420
tcattgatcc ctaccctggc tggacggcgg caaagccctg ggcagccacc acacgcctc 480
cccctggaat ctcagccctt tctccaagac gtccatccac caccgctccc cggggccct 540
ctcgtcttac ccccggcct cgtctctctc cttgtcgggg ggccacgcca gcccgcacct 600
cttcaccttc ccgccacccc cgccgaagga cgtctcccc gaccatcgc tgtccacccc 660
aggtcgggcc ggctcggccc ggcaggacga gaaagagtgc ctcaagtacc aggtgcccct 720
gcccgcagac atgaagctgg agtcgtccca ctcccggtgc agcatgaccg cctgggtg 78 0
agcctcctcg tcgacccacc accccatcac cacctaccg ccctacgtgc ccgagtacag 840
ctccggactc ttcccccca gcagcctgct gggcggctcc cccaccggct tcggatgcaa 900

```

```

gtccaggccc aaggcccggt ccagcacagg cagggagtgt gtgaactgtg gggcaacctc 960
gacccactg tggcggcgag atggcacggg acactacctg tgcaacgcct gcgggctcta 1020
tcacaaaatg aacggacaga accggccctt cattaaagccc aagcgaagc tgtctgcagc 1080
caggagagca gggacgtcct gtgcgaactg tcagaccacc acaaccacac tctggaggag 1140
gaatgccaat ggggaccctg tctgcaatgc ctgtgggctc tactacaagc ttcacaatat 1200
taacagaccc ctgac tatga agaaggaagg catccagacc agaaaccgaa aaatgtctag 1260
caaatccaaa aagtgcacaaa aagtgcacatg ctactggag gacttcccca agaacagctc 1320
gtttaaccctg gccgcctctt ccagacacat gtccctccctg agccacatct cgcccttcag 1380
ccactccagc cacatgtctg ccacgcccac gccgatgcac ccgccatcca gcct gtcctt 1440
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acaggggccc cagcgagagt ccctgcagtc cctttcgact tgcatttttg caggagcagt 1560
atcatgaagc ctaaagcgga tggatatatg tttttgaagg cagaaagcaa aattatgttt 1620
gccactttgc aaaggagctc actgtggtg t ctgtgttcca accactgaat ctggacccca 1680
tctgtgaata agccattctg actcatatcc cctatttaac aggggtctcta gtgctgtgaa 1740
aaaaaaaaat cctgaacatt gcatataact tatattgtaa gaaatactgt acaatgactt 1800
tattgcatct gggtagctgt aaggcatgaa ggatgccaa aagtttaagg aatatgggag 1860
aaatagtgtg gaaattaaga agaaactagg tctgatattc aaatggacaa actgccagtt 1920
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cctctgcaaa ggaaatacca gttctgggca atcagtgtta cc gttcacca gttgccattg 2100
aggggtttcag agagcctttt tctaggccta catgctttgt gaacaagtcc ctgtaattgt 2160
tgtttgtatg tataattcaa agcaccacaaa taagaaaaaga tgtagattta tttcatcata 2220
ttatacagac cgaactgttg tataaattta tttactgcta gtcttaagaa ctgctttctt 2280
tggttgtttt gtttcaa tat tttccttctc totcaatttt cggttgaata aactagatta 2340
cattcagttg gcaaaaaaaaa aaaaa 2365

```

<210> 79

<211> 328

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer

<220>

<221> misc_feature

<222> (1)..(328)

<223> 3' terminal sequence. growth factor
receptor-bound protein 7 (GRB7) gene.

<400> 79

```

ttgtatnttt naaataatct ttattgtcac tagtataaaa cagagcagat caactggcct 60
ctcggctctgt acaaagtgtg gggcgtgaaa ccgctgggct gccccactt ctcccataat 120
tccctgccct agagcagcag ctccagagct aggagaagga gagggggcca cccaaggcct 180
tcccttgagg agaggggtca ggagtggact ggagtggggg ctgttttcta tctgaggag 240
gcaaagaagc agaggagaaa actggagtgg cggaaccctc ccgntcctca tcccgctccc 300
tgtggccgat cccanagtcc actnggat 328

```

<210> 80

<211> 428

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer

<220>

<221> misc_feature

<222> (1)..(428)

<223> 5' terminal sequence. growth factor
receptor-bound protein 7 (GRB7) gene.

<400> 80

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ggctccccac ccttgagaag tgcctcagat aataccctgg tggccatgga cttctctggc 60
catgctgggc gtgtcattga gaacccccgg gaggctctga gtgtggccct ggaggaggcc 120
caggcctgga ggaagaagac aaaccaccgc ctacgcctgc ccattgccagc ctccggacga 180
gcctcagtg cagccatccac cgcacccaac tctgggtcca cgggcgcatt tcccgtgagg 240
agagccagcg ttatttggga cagcagggct tngtagacgg cctgttccctg ggtccgggag 300
agtcagcggg aacccccagg ggtttttcct ctttttnttg ccaccttgca gaaagtgaag 360
cntttatttc attccttgcc gagcgaagga ggaagggccg cttttatttt aagcattggt 42 0
tgattggc 428
```

<210> 81

<211> 2205

<212> DNA/RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer

<220>

<221> misc_feature

<222> (1)..(2205)

<223> growth factor receptor-bound protein 7
(GRB7) gene.

<400> 81

```
cacagggtc cccccgcct ctgacttctc tgtccgaagt cgggacaccc tctaccacc 60
ttagagaag cgggagtga tctgaaataa aatccaggaa tctgggggtt cctagacgga 120
gccagacttc ggaacgggtg tctgtctact cctgtctggg ctccctccagg acaaggga c 180
acaactggtt ccgttaagcc cctctctcgc tcagacgcca tggagctgga tctgtctcca 240
cctcatctta gcagctctcc ggaagacctt tggccagccc ctgggacccc tcttgggact 300
ccccggcccc ctgatacccc tctgcctgag gaggtaaaga ggtcccagcc tctcctcacc 360
ccaaccaccg gcaggaaact tcgagaggag gagaggc gtg ccacctccct cccctctatc 420
cccaacccct tccctgagct ctgcagtctc cctcacaga gcccaattct cgggggcccc 480
tccagtga caggggctgct cccccgcgat gccagccgcc cccatgtagt aaagggtgac 540
agtgaggatg gggcctgcag gtctgtggag gtggcagcag gtgccacagc tcgccacgtg 600
tgtgaaatgc tgggtg cagcg agctcacgcc ttgagcgacg agacctgggg gctggtggag 660
tgccaccccc acctagcact ggagcggggt ttggaggacc acgagtccgt ggtggaagtg 720
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tacgaactgt tcaagagctc cccacactcc ctgttcccag aaaaaatggt ctccagc tgt 840
ctcgatgcac aactggtat atcccatgaa gacctcatcc agaacttctt gaatgctggc 900
agctttcctg agatccaggg ctttctgcag ctgcggggtt caggacggaa gctttggaaa 960
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caggggccga agctctacgg gatgccact gacttcggtt totgtgtcaa gcccaacaag 1140
cttcgaaatg gacacaaggg gcttcggatc ttctgcagtg aagatgagca gagccgcacc 1200
tgctggctgg ctgccttcgg cctcttcaag tacggggtgc agctgtacaa gaattaccag 1260
caggcacagt ctgcctatct gcctccatct tgtttgggct cccaccctt gagaagtgcc 1320
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acccaactct ggttccacgg gcttccctcc cgtgaggaga gccagcggct tattggacag 1560
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gagggtcgcc tgtacttcag ca tggatgat ggccagaccc gcttcaactga cctgtctgag 1740
ctcgtggagt tccaccagct gaaccggggc atcctgcctg gcttgcctgc ccattgctgc 1800
acgcggttgg cctcttgacc aggcctggga ctggctcatg cctcagccc ccttcaggct 1860
gcccgcggcc cctccacca tccagtggac tctggggcgc ggccacaggg gacgggatga 1 920
```

57/292

```

ggagcgggag ggttcgccca ctccagtttt ctctctgtct tctttgcctc cctcagatag 1980
aaaacagccc ccactccagt ccactcctga cccctctoct caagggaagg ccttgggtgg 2040
ccccctctcc ttctcctagc tctggagggtg ctgctctagg gcagggaatt atgggagaag 2100
tgggggcagc ccaggcgggt tcacgccccca cacttt gtac agaccgagag gccagttgat 2160
ctgctctgtt ttatactagt gacaataaag attatttttt gatac 2205

```

<210> 82

<211> 313

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer

<220>

<221> misc_feature

<222> (1)..(313)

<223> 5' terminal sequence. topoisomerase (dna) ii
beta (180kd) (TOP2B) gene.

<400> 82

```

gaaatttgac agtaatgaag aagattctgc ttctgttttt tcaccatcat ttggtctgaa 60
acagacagat aaagtcccaa gtaaaacggg agctgctaaa aagggtatgt acttatattt 120
gattgagtta agcattgg at agagatagtt aatgtaaaag gaaatgtaat ttaatttgaa 180
actatttgca tttttttatc ataaaacaat taagggaagta taagtgccta taaggaggac 240
ctctcgtttt ctagccatct gagggcggtta ataaatttct gtaggactta nttaaagct 300
gttgtaanttt taa 313

```

<210> 83

<211> 4866

<212> DNA/RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer

<220>

<221> misc_feature

<222> (1)..(4866)

<223> topoisomerase (dna) ii beta (180kd) (TOP2B)
gene.

<400> 83

```

atggccaagt cgggtggctg cggcgcggtg gccggcgtgg gcggcggcaa cggggcactg 60
acctgggtga acaatgctgc aaaaaaagaa gagtcagaaa ctgccacaa aaatgattct 120
tcaaagaagt tgtctgttga gagagtgtat cagaagaaga cacaacttga acacattctt 180
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 aagcccaaga gagcccaaaa acagaagaaa gtagtagagg ctgtaaaactc tgactcggat 4560
 tcagaatttg gcattccaaa gaagactaca acaccaaaag gtaaaaggccg aggggcaaaag 4620

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ttccctcag acttccctac tgagccacct tctctgccac gaaccggctc g gctaggaaa 4800
gaagtaaaat attttacaga gtctgatgaa gaagaagatg atgttgattt tgcaatgttt 4860
aattaa                                         4866

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<210> 84
 <211> 311
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:primer

<220>
 <221> misc_feature
 <222> (1)..(311)
 <223> 3' terminal sequence. caspase 4,
 apoptosis-related cysteine protease (CASP4) gene.

```

<400> 84
cacttttatt gaaatacaaa atgttaaata tgcaagctgt actaatgaag gtgctccttg 60
aagttgatta aggagggctg ggctgcttgt ggcttccatt ttcaattgcc aggaaagagg 120
tagaaatata ttgtcatgga cagtcgttct atgggtggca ttgagcttt ggcccttgga 180
gtttcaaatg attgctgtac cttccgaaat acttctctta ggtggcagca ccaagaatat 240
ttctgggaag catgtgatga gttgtgtgat gaagatagag cccattgtg ctgtctctcc 300
cagggcacgt t                                         311

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<210> 85
 <211> 1291
 <212> DNA/RNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:primer

<220>
 <221> misc_feature
 <222> (1)..(1291)
 <223> caspase 4, apoptosis-related cysteine
 protease (CASP4) gene.

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<400> 85
gctctttcca acgctgtaaa aaaggacaga ggctgttccc tatggcagaa ggcaaccaca 60
gaaaaaagcc acttaagggtg ttggaatccc tgggcaaaga ttctctcact ggtgttttgg 120
ataacttggt ggaacaaaat gtactgaact ggaaggaaga ggaaaaaag aa atattacg 180
atgctaaaac tgaagacaaa gttcgggtca tggcagactc tatgcaagag aagcaacgta 240
tggcaggaca aatgcttctt caaacctttt ttaacataga ccaaatatcc ccaataaaaa 300
aagctcatcc gaatatggag gctggaccac ctgagtcagg agaatctaca gatgccctca 360
agctttgtcc tcatgaagaa ttcttgagac tatgtaaaga aagagctgaa gagatctatc 420
caataaagga gagaacaac cgcacacgcc tggctctcat catatgcaat acagagtttg 480
accatctgcc tccaggaat ggagctgact ttgacatcac agggatgaag gagctacttg 540
agggctctgga ctatagtgtg gatgtagaag agaactctgac agccagggat atggagtcag 600
cgctgagggc atttgcctacc agaccagagc acaagtcctc tgacagcaca ttcttggtac 660
tcatgtctca tggcatcctg gagggaatct gcggaactgt gcatgatgag aaaaaaccag 720
atgtgctgct ttatgacacc atcttccaga tattcaaaa ccgcaactgc ctgagctga 780
aggacaaacc caaggtcatc attgtccagg cctgcagagg tgcaaaccgt ggggaactgt 840
gggtcagaga ctctccagca tcttggaaag tggcctcttc acagtcactc gagaacctgg 900
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60/292

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cgccacacaa cgtgtcctgg agagacagca caatgggctc tatcttcac acacaactca 1020
tcacatgctt ccagaaatat tcttggtg ct gccacctaga ggaagtattt cggaaggtag 1080
agcaatcatt tgaaactcca agggccaaag ctcaaagcc caccatagaa cgactgtcca 1140
tgacaagata tttctacctc tttcctggca attgaaaatg gaagccacaa gcagcccagc 1200
cctccttaat caacttcaag gagcacctc attagtacag cttgcatatt taacattttg 1260
tatttcaata aaagtgaaga caaaaaaaaa a 1291
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<210> 86

<211> 319

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer

<220>

<221> misc_feature

<222> (1)..(319)

<223> 5' terminal sequence. tiss ue inhibitor of metalloproteinase 2 (TIMP2) gene.

<400> 86

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tggacccatg ggatgagtgt tttattcatg ctgtttccag gaagggatgt cagagctgga 60
ccagtcgaaa cccttgaggg ctttttttgc agttggccac agggcggttg gaggcctgct 120
tatgggtcct cgatgtcgag aaactcctgc ttggnggacn ccgcg ccgcg tnnccacgca 180
caggagcct cacttctctt gatgcaggcg aagaacttgg cctggnnccc gttnatgttc 240
ttctctgtga cccagtcctt ccagaggcac tcgtccgggg agganatgta gcacgggata 300
atngggcanc gcgtgatct 319
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<210> 87

<211> 1075

<212> DNA/RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer

<220>

<221> misc_feature

<222> (1)..(1075)

<223> tissue inhibitor of metalloproteinase 2 (TIMP2) gene.

<400> 87

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cgcagcaaac acatccgtag aaggcagcgc ggccgcca g agccgcagcg ccgctcgccc 60
gccgcccccc accccgcgcg cccgcccggc gaattgcgcc ccgcgcccct ccctcgcg 120
ccccgagaca aagaggagag aaagtttgcg cggccgagcg gggcaggtga ggagggtag 180
ccgcgcggga ggggcccgcg tcggccccgg ctacgcccc gccgcgccc ccagcccgc 240
gccgcgagca gcgcccgc ac ccccagcgc cggccccgc ccgcccagcc ccccggcccg 300
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atgcagatgt agtgatcagg gccaaagcgg tcagtgaaga ggaagtggac tctggaaacg 480
acatttatgg caaccctatc aagaggatcc agtatgagat caagcagata aagatgttca 540
aagggcctga gaaggatata gagtttatct acacggcccc ctctcggca gtgtgtgggg 600
tctcgctgga cgttggagga aagaaggaat atctcattgc aggaaggcc gaggggagc 660
gcaagatgca catcaccctc tgtgacttca tcgtgcc tg ggacaccctg agcaccacc 720
agaagaagag cctgaaccac aggtaccaga tgggctgcga gtgcaagatc acgcgctgcc 780
ccatgatccc gtgtacatc tcctccccgg acgagtgcct ctggatggac tgggtcacag 840
agaagaacat caacgggcac caggccaagt tcttcgcctg catcaagaga agtgacggct 900
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61/292

cctgtgctgtg gtaccg cggc gggcgcccc ccaagcagga gtttctcgac atcgaggacc 960
cataagcagg cctccaacgc cctgtggcc aactgcaaaa aaagcctcca agggtttcga 1020
ctggtccagc tctgacatcc ctctctggaa acagcatgaa taaaacactc atccc 1075

<210> 88
<211> 225
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(225)
<223> 3' terminal sequence. d -dopachrome
tautomerase (DDT) gene.

<400> 88
ttttttgaat gaggaagctc tcttcattta tttcanatga ggatgaagaa gaggattatg 60
tgancacagg aatnttgcac gcgggataat ccaaagctgg ttatctccag gncctcantn 120
tgccaagaga tctctctgga agaagcagcc agttcacaga tgccctggat cctcccgctg 180
ccaatcataa aaaagtcacg accgtcccta tnttgccaat ntgcc 225

<210> 89
<211> 312
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(312)
<223> 5' terminal sequence. d -dopachrome
tautomerase (DDT) gene.

<400> 89
cgttcctgga gctggacacg aatttgccc ccaaccgagt gcccgcggn tngagaaac 60
gactctgcgc cgcgctgcc tccatcctgg gcaaacctgc ggaccgctg aacgtgacgg 120
tacggccggg cctggccatg gcgctgagcg ggtccaccga gccctgcgag cagtgttcca 180
tctcctccat cggcgtagtg gggcacgcg agggacaacc gcagccacag cgccatttc 240
ttttgagttt tttcaccaag gagctaagcc cctgccagg acccgat ant tattccnttt 300
ttttcccttt gg 312

<210> 90
<211> 666
<212> DNA/RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(666)
<223> d-dopachrome tautomerase (DDT) gene.

<400> 90
gatccccgtg ccagggaccc tgcccagttc caggcgctgc ctaaccacaga aacgactggg 60
cgccgcgtcc tggaaaggcc ccagcgcaag gacatctgag gagctgtttc cgttcctctg 120
cccgccatgc cgttcctgga gctggacaag aatttgcccg ccaaccgagt gcccgcgagg 180
ctggagaaac gactctgcgc cgccgctgcc tccatcctgg gcaaacctgc ggaccgcgtg 240
aacgtgacgg tacggccggg cctggccatg gcgctgagcg ggtccaccga gccctgcgcg 300
cagctgtcca tctcctccat cggcgtagtg ggcaccgagg aggacaaccg cagccacagc 360
gcccactttc ttgagtttct caccaaggag ctaggcctgg gcc aggaccg gatacttctc 420
cgctttttcc ccttggagtc ctggcagatt ggcaagatag ggacgggtcat gactttttta 480
tgattgggca cggagggatc cagggcacat gtgaactggc tgcttcttcc agagagatct 540
cttggcagag tgagggcctg gagataacca gctttggatt atcccgcatg caacattcct 600
gtgatcacat aatcctcttc ttcctcctca tatgaaataa atgaagagag cttcctcatt 660
caaaaa 666

<210> 91
<211> 443
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(443)
<223> 3' terminal sequence. prolactin (PRL) gene.

<400> 91
gantttgatg tctctaagga gtcagttttt attttttaag aggagacctg ttacacccaa 60
gcatggattc aaaagagata caactaaaag aagcttgcaa tggaacggat cattaaggac 120
cttctcagaa atagatgaaa tggatgtggg cttagca gtt gttgtgtggt atgattcggg 180
cacttcaggg agcttgagga taattgtcga ttttatgtga atccctgcgt aggcaatggg 240
agaggttata ataaggcagg aaagggcgag actcttcacg agccatctgc aggggatggg 300
aagtcgccga ccagacagag gtagatctca ttttctttgg gttttcaggg atgaacctgg 360
gcttgactat ccagcttcca tgnccctctt ggaagccctt ttggttttgc tccctcaatc 420
ttctacagct tttgggttag ggt 443

<210> 92
<211> 243
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(243)
<223> 5' terminal sequence. prolactin (PRL) gene.

<400> 92
gaagaatcgg aacatacagg ctttgatata aaaggtttat aaagccaata tctgggaaag 60
agaaaaccgt gagacttcca gatcttctct ggtgaagtgt gtttcctgca acgatcacga 120
acatgaacat caaaggatcg ccatgggaaa gggccctccc tgctgctgct ggggtgttcaa 180
acctgctcct gtgccagagc gtgggcccc ttggcccatc tgtcccgnc gggcttgccc 240
gat 243

<210> 93
<211> 833
<212> DNA/RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(833)
<223> prolactin (PRL) gene.

<400> 93
aaacatgaac atcaaaggat cgccatggaa agggctccctc ctgctgctgc tgggtgtcaaa 60
cctgctgctg tgccagagcg tggcccccctt gcccatctgt cccggcgggg ctgcccgatg 12 0
ccagggtgacc cttcgagacc tgtttgaccg cgccgtcgtc ctgtccact acatccataa 180
cctctcctca gaaatgttca gcgaattcga taaacggtat acccatggcc gggggttcat 240
taccaaggcc atcaacagct gccacacttc ttcccttgcc acccccgaag acaaggagca 300
agcccaacag atgaatcaaa aagactttct gagcctgata gtcagcatat tgcgatcctg 360
gaatgagcct ctgtatcatc tggtcacgga agtacgtggt atgcaagaag ccccgagggc 420
tattctatcc aaagctgtag agattgagga gcaaaccaaa cggtttctag agggcatgga 480
gctgatagtc agccagggttc atcctgaaac caaagaaaat gagatctacc ctgtctggtc 540
gggacttcca tccctgcag a tggctgatga agagtctcgc ctttctgctt attataacct 600
gctccactgc ctacgcaggg attcacataa aatcgacaat tatctcaagc tccctgaagtg 660
ccgaatcatc cacaacaaca actgctaagc ccacatccat ttcatctatt tctgagaagg 720
tccttaatat tccgttccat tgcaagcttc ttttagttgt atctcttttg aatccatgct 780
tgggtgtaac aggtctcctc ttaaaaaata aaaactgact cgtagagac atc 833

<210> 94
<211> 304
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(304)
<223> 3' terminal sequence. prolactin receptor
(PRLR) gene.

<400> 94
actaagcagt gtgcttttat ttcatgaac acatagtttt ataactaaca gcaaaaagta 60
aatctacaaa tcacagttag gaaacataat gatttgttct ggaatcagct gctggagaaa 120
gaggcaagtg gttaaaaatg gagcatgaaa ggagctggga gctttagtag tgtcagtctg 180
actacattct tgaggcattt cacgtactct gtagtggtac ctgaagaaa atcacatttt 240
aaccaatcat tccattagtc aagctatcag tgaaaggagt gtgtaaaaca tgcgggatcc 300
cggg 304

<210> 95
<211> 366
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
 <221> misc_feature
 <222> (1)..(366)
 <223> 5' terminal sequence. prolactin receptor
 (PRLR) gene.

<400> 95
 gaggtcattg agaagccaga gaatcctgaa acancccaca cctggaaccc ccantgcata 60
 agcatggaag gcaaaatccc ctatttncat gctgggtggat ccaaagtgtc aacatggccc 120
 ttaccacagc ccagccagca caaccccaga tctctttacc acaatattac tgatgtgtgt 180
 gagctggctg tgggccctgc aggtgcaccg gccactctgt tgaatgaagc aggtaaagat 240
 gctttaaaat cctctcaaac cattaagtct agagangag g gnaaggcaac ccaggcagag 300
 ggaggttaga aagcttccat tcttgagnac tgaccagggt tacgnectgg gttgcttgcc 360
 ccaggg 366

<210> 96
 <211> 2723
 <212> DNA/RNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:primer

<220>
 <221> misc_feature
 <222> (1)..(2723)
 <223> prolactin receptor (PRLR) gene.

<400> 96
 ggaggtgaa atccccagac gccggttttc tgggctgggc tttctgctta ctcaactcctt 60
 ctccctcttt ctggatttta ccgaccgttc gcgaaacagc tttccacaca atggagcttc 120
 atgtcctcgt gcaggaagta ctcatcgact gatgtggcag actttgctcc ctgacaaaac 180
 taaagaactc tcctattcat ggaggcgaac actgaggatg ctttccacat gaaccctgaa 240
 gtgaacttct gatacatttc ctgcagcaag agaaggcagc caacatgaag gaaaaatgtgg 300
 catctgaac cgttttcact ctgctacttt ttctcaac ac ctgccttctg aatggacagt 360
 tacctcctgg aaaaacctgag atctttaaat gtctgttctcc caataaggaa acattcacct 420
 gctgggtggag gcctgggaca gatggaggac ttctaccaa ttattcactg acttaccaca 480
 gggaaggaga gacactcatg catgaatgtc cagactacat aaccggtggc cccaactcct 540
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65/292

```

aacagagaga gaacagcggc aagcccaaga agcccgggac tcctgagaac aataaggagt 1920
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```

<210> 97

<211> 365

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer

<220>

<221> misc_feature

<222> (1)..(365)

<223> 3' terminal sequence. interleukin 2
receptor, beta (IL2RB) gene.

<400> 97

```

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aaataatcac aaagatggta cacacggatc attaaaagat acggatgtat aggatacata 180
tgtcacaaat gattaaggac ttaaaaaatg taaccctccc aagaagtggg gagcctccca 240
aagtggggga agggcaaata caatttcnt ttgggggggg atagggngac cccctttgca 300
gagaggggtt aggtgggggt tcccccggn acacacaggc aagggtttgg gngcccttg 360
tgggg 365

```

<210> 98

<211> 366

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer

<220>

<221> misc_feature

<222> (1)..(366)

<223> 5' terminal sequence. interleukin 2
receptor, beta (IL2RB) gene.

<400> 98

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gacaaggctc cacaagcgtt gagccttgga aaggtagaca agcgttg agc cactaagcag 240
aggaccttgg gttcccaata caaaaatacc tactgctgag aggggntgct gaccattttg 300

```

gtcaaggatt tcngtttgcc ttatatccca aataaantcc cttttttttn aggttttntt 360
agtntt 366

<210> 99

<211> 4034

<212> DNA/RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer

<220>

<221> misc_feature

<222> (1)..(4034)

<223> interleukin 2 receptor, beta (IL2RB) gene.

<400> 99

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tcccctgtgag tcaagcatcc tgggcctgca acctgatcct cggagcccca gattctcaga 420
aactgaccac agttgacatc gtcaccctga ggggtgctgt cctgtagggg gtgcgatgga 480
gggtgatggc catc caggac ttcaagccct ttgagaacct tcgcctgatg gcccctatct 540
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aaaataagta caat 4034

```

<210> 100

<211> 444

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer

<220>

<221> misc_feature

<222> (1)..(444)

<223> 3' terminal sequence. gata-binding protein 3
(GATA3) gene.

<400> 100

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aactggcagt ttgtccattt gaatatcaga cctagtttct tcttaatttc cacacta ttt 120
ctcccatatt ccttaaactt cttggcatcc ttcatgcctt acagctaccc agatgcaata 180
aagtcattgt acagtatttc ttacaatata agttatatgg caatgttcag gcattttttt 240
ttttcacagg cactaggagg acctgtttta aatgggggat atgaggtcag gaatgggctt 300
attcacagga tgggggggtcc cggattcagg tgggt tgggg ancacaggac accacagggtg 360
aggctccctt tgccaaagggt ggggccaac ataatttttg cttttctggc cttcaaaaa 420
catatttcn tcgcgttttg gggg 444

```

<210> 101

<211> 396

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer

<220>

<221> misc_feature
<222> (1)..(396)
<223> 5' terminal sequence. gata -binding protein 3
(GATA3) gene.

<400> 101
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acccttgact atgaagaagg aaggcatoc a gaccagaaac cgaaaaatgt ctgcaaatac 120
caaaaagtgc aaaaagtgc tgactcactg gaggacttcc ccaagaacag ctcgtttaac 180
ccggccgccc tctccagaca catgtcctcc ctgagccaca tctcgccctt cagccactcc 240
agccacatgc tgaccacggc ccacgccgat ggcacccgcc atccagcctg tcctttggga 300
ccacaccacc cctccagctg ggtcaccgcc ntgggtttag agccttgtn gatggttcac 360
agggggcccc cagcgagagt tncctgnagt tccttt 396

<210> 102
<211> 416
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(416)
<223> 5' terminal sequence. placental growth
factor, vascular endothelial growth factor -related
protein (PGF) gene.

<400> 102
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acagactgcc acctgtgcgg cgatgctgtt ccccgagta acccacccct tggaggagag 120
agaccccgca cccggctcgt gtatttatta ccgtcacact ctccagtac tctgctggt 180
acctgccctc tatattattag ccaactgttt ccctgctgaa tgccctcgtc ccttcaagac 240
gaggggcagg gaaggacagg accctcagga attcagtgcc ttcaacaacg tga gagaaag 300
agagaagcca gccacagacc cctggggagc ttccgcttt tgaaagaagc aagacaagtt 360
ggccttggtt aggggcaagg ttagggccca ggaggccctn gggaagtttt tcaggg 416

<210> 103
<211> 1645
<212> DNA/RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<220>
<221> misc_feature
<222> (1)..(1645)
<223> placental growth factor, vascular
endothelial growth factor-related protein (PGF)
gene.

<400> 103
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tccccgggac ccgctgccc ctgggcgccc cgccccgcc ggccgctccc cgtcgggttc 120
cccagccaca gccttaccta cgggctcctg actccgcaag gcttccagaa gatgctcgaa 180
ccaccggccg ggccctcggg gcagcagtga gggaggcgtc cagccccca ctcagctctt 240
ctcctcctgt gccagggggt ccccggggga tgagcatggt ggttttccct cggagcccc 300

69/292

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tggctcggga cgtctgagaa gatgcgggtc atgaggetgt tcccttgctt cctgcagctc 360
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```

<210> 104

<211> 309

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer

<220>

<221> misc_feature

<222> (1)..(309)

<223> 5' terminal sequence. ubiquitin protein
ligase e3a (human papilloma virus e6 -associated
protein, angelman syndrome) (UBE3A) gene.

<400> 104

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ttcggcanag gggaaatgaa gcctgcacga atgagttttg tgcttcctgt ccaacttttc 60
ttcgtatgga taataatgca gcagctatta aagccctcga gctttataag antagggcaa 120
aactctgtga tcctcatccc tccaagaaag gagcaagctc agcttacctt gagaactcga 180
aaggtgcccc caacaactcc tgctctgaga taaaaatgaa caaggaaagg gcgctaggaa 240
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tctttggac 309

```

<210> 105

<211> 2628

<212> DNA/RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer

<220>

<221> misc_feature

<222> (1)..(2628)

<223> ubiquitin protein ligase e3a (human

papilloma virus e6-associated protein, angelman
syndrome) (UBE3A) gene.

<400> 105

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atggagaagc tgcaccagtg ttattggaaa tcaggagaac ctcagtctga cgacattgaa 60
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cagatatcac agacagatct ttttgtaac ccaatgatgt atg atctaaa ggaaaatgg 2100
gataaaattc caattacaaa tgaaaacagg aaggaatttg tcaatcttta ttctgactac 2160
attctcaata aatcagtaga aaaacagttc aaggcttttc ggagaggttt tcatatgggt 2220
accaatgaat ctcccttaaa gtacttattc agaccagaag aaattgaatt gcttatatgt 2280
ggaagccgga atctagat tt ccaagcacta gaagaaacta cagaatatga cgggtggctat 2340
accagggact ctgttctgat tagggagtgc tgggaaatcg ttcatcatt tacagatgaa 2400
cagaaaagac tcttcttgca gtttacaacg ggcacagaca gagcacctgt gggaggacta 2460
ggaaaattaa agatgattat agccaaaaat ggcccagaca cagaaagggt acctaca tct 2520
catacttgct ttaatgtgct tttacttcog gaatactcaa gcaaagaaaa acttaaagag 2580
agattgttga aggccatcac gtatgccaaa ggatttggca tgctgtaa 2628

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<210> 106

<211> 363

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence :primer

<220>

<221> misc_feature

<222> (1)..(363)

<223> 3' terminal sequence. oncogene tc21 (TC21)
gene.

<400> 106
aattttaatt ctagcacctg aagctataca agggatgct ctataaactt catgggactg 60
tcgtacacac ttgataaagt gacaactgtg caataccact tagcatctca aaatcag gaa 120
catactattg aattgcttaa acacaatcca caganttaaa aacaaaatca ggatgccatc 180
cacagttata ctaattatcc attaaaaggc ttacacttaa tacttgaant aacaatcaat 240
atctagnccg ggnatactgg aaagtggatt tcagnggtct catcctgttg gtactctatt 300
ggggnggggt ttcttgaggt aggttatggt ggact gggnc caaggntggg ggggtaccacc 360
cag 363

<210> 107

<211> 408

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer

<220>

<221> misc_feature

<222> (1)..(408)

<223> 5' terminal sequence. oncogene tc21 (TC21)
gene.

<400> 107
gaattgaatc tacaaaagtg aaccatctca gacctttact gatactacaa cttttgtttt 60
ctgatggcca aaataccaaa tgctgttgtt atttatggat taaaaactgc ttataaaacc 120
ctgtgttact actcctactc ttggagatga taatattc ta tgtgggtcaaa tatttggact 180
catttaggac ttagataattt cagtgtactt gattttttta tttaactctt ttccacagcc 240
acgctaaggg taaaaaggaa taatttcctt ctgtcttctt tttcaagtat ttctgggtaa 300
gggattcaaa aaactaaaac tgtttttggt tgtaatatata aatatgggat tgatctttcc 360
ggggtcagag atgattaatg tttttgctat atacttttat acatgntt 408

<210> 108

<211> 612

<212> DNA/RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer

<220>

<221> misc_feature

<222> (1)..(612)

<223> oncogene tc21 (TC21) gene.

<400> 108
atggccgagg cggctggcgg acggctccgg caggagaagt accggctcgt ggtggtcggc 60
gggggaggcg tgggcaagtc ggcgctcacc atccagttca tccagtcta tttgttaacg 120
gattatgata caaccattga agattcttac acaaagcagt gtgtgataga tgacagagca 180
gccgggctag atatttttga tacagcagga caagaagagt t tggagccat gagagaacag 240
tatatgagga ctggcgagg cttcctgttg gtcttttcag tcacagatag aggcagtttt 300
gaagaaatct ataagtttca aagacagatt ctacagagtaa aggatcgtga tgagttccca 360
atgattttta ttggtaataa agcagatctg gatcatcaaa gacaggtaac acaggaagaa 420
ggacaacagt tagcacggca gcttaaggta acatacatgg aggcattcagc aaagattagg 480
atgaatgtag atcaagcttt ccatgaactt gtccgggtta tcaggaaatt tcaagagcag 540
gaatgtcttc cttcaccaga accaacacgg aaagaaaaag acaagaaagg ctgccattgt 600

gtcattttct ag

6 12

<210> 109

<211> 592

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer

<220>

<221> misc_feature

<222> (1)..(592)

<223> 5' terminal sequence. tyrosine kinase with
immunoglobulin and epidermal growth facto r
homology domains (TIE) gene.

<400> 109

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ngtcggagag aacctagcct ccaagattgc agacttcggc ctttctcggg gagaggaggt 60
ttatgtgaag aagacgatgg ggcgtctccc tgtgcgctgg atggccattg agtccctgaa 120
ctacagtgtc tataccacca agagtgatgt ctggctcttt ggagtccttc tttgggagat 1 80
agtgagecctt ggaggtaaac cctactgtgg catgacctgt gccgagctct atgaaaagct 240
gccccagggc taccgcatgg agcagcctcg aaactgtgac gatgaagtgt acgagctgat 300
gcggttcagtg ctggcgggac cgtccctatg agcgaccccc ctttgcccag attgcgctaa 360
cagctaggcc gcatgctggg aagccaggga aggcctatgt gaacatgttc gctgtttgag 420
aacttcaatt aacgcgggca ttgatgccac agctgaggag gnctgagctg ccaccagcc 480
agaactnggt ctgttgccg gagcaattt ggtgtctaaa ctgtgaccag ttnaacctta 540
aagctttgat ttaagttgct taaggatttt ttaattaag ggagaaaaat tt 592

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<210> 110

<211> 3845

<212> DNA/RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer

<220>

<221> misc_feature

<222> (1)..(3845)

<223> tyrosine kinase with immunoglobulin and
epidermal growth factor homology domains (TIE)
gene.

<400> 110

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cgctcgctct ggctggcctg ggtcggcctc tggagtatgg tctggcgggt gcccctttc 60
ttgctcccca tctcttctt ggttctcat gtgggcggcg cggtggacct gacgtgctg 120
gccaacctgc ggctcacgga cccccagcgc ttcttctga cttgcgtgtc tggggaggcc 180
ggggcgggga ggggctcgga cgcctggggc cc gcccctgc tgctggagaa ggacgaccgt 240
atcgtgcgca cccgcggcg gcccacctg cgctggcgcg gcaacggttc gcaccaggtc 300
acgtctcgcg gcttctccaa gccctcggac ctgctggcg tcttctctg cgtgggcgg 360
gctggggcg cgcgcacgcg cgtcatctac gtgcacaaca gccctggagc ccacctgctt 420
ccagacaagg tcacacacac tgtgaacaaa ggtgacaccg ctgtactttc tgcacgtgtg 480
cacaaggaga agcagacaga cgtgatctgg aagagcaacg gatcctactt ctacacctg 540
gactggcatg aagcccagg tgggcgggtc ctgctgeagc tcccaaatgt gcagccacca 600
tcgagcggca tctacagtgc cacttacctg gaagccagcc ccctgggcag cg ccttcttt 660
cggctcatcg tgcgggggtg tggggctggg cgctgggggc caggctgtac caaggagtgc 720
ccaggttgcc tacatggagg tgtctgccac gaccatgacg gcgaatgtgt atgccccct 780
ggcttcactg gcacccgctg tgaacaggcc tgcagagagg gccgttttgg gcagagctgc 840

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caggagcagt gccagggcat atcaggctgc cggggcctca ctttctgcct cccagacccc 900
tatggctgct cttgtggatc tggttgga gaagccagt gccagaagc ttgtgcccct 960
ggtcattttg gggctgattg ccgaactccag tgcagtgctc agaattggtg cacttgctac 1020
cggttcagtg gttgtgtctg cccctctggg tggcatggag tgcactgtga gaagtcagac 1080
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aagccagacg gcaactgtgct cctgtccacc aaggccattg tggagccaga gaagaccaca 1260
getgagttcg aggtgccccg cttggttctt gcggacagtg ggttct ggga gtgcccgtgtg 1320
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cagctactcc cactccggc ctgtcattca gaaaaaata aatgtttctaa taagctccaa 3840
aaaaa 384 5

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<210> 111

<211> 202

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer

<220>
 <221> misc_feature
 <222> (1)..(202)
 <223> 3' terminal sequence. autocrine motility
 factor receptor (AMFR) gene.

<400> 111
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 cccacaggct ttagcactgc ctaatttact tcaccaatga atgaaaacca taaaccaaag 120
 cttgctgcct aaccactccc cagggccaga cgggacaagg aaatgctgag aggggagggg 180
 acccatgggg canantnatg ag 202

<210> 112
 <211> 450
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:primer

<220>
 <221> misc_feature
 <222> (1)..(450)
 <223> 5' terminal sequence. autocrine motility
 factor receptor (AMFR) gene.

<400> 112
 attcaagtac cttttcctac acagcggta gatagcatca gacctgcatt gaacagtcct 60
 gtggaaaggc caagcagtga ccaggaagag ggagaaactt ctgctcagac cgagcgtgtg 120
 ccactggacc tcagtcctcg cctggaggag acgtggact tcggcgaggt ggaagtggag 180
 cccagtggag tggaagactt cgaggctcgt gggagcgctt tctccaagtc tgctgatgag 240
 agacagcgca tgtggtngca gcgtaaggac gaactcctcc agcaagctcg caaacgtttt 300
 cttgaacaaa agttctgaag atgatgccgg cttcagaga gttttcctnc cttcggaaa 360
 ggtgcggttc cttttgaacc ccgtgaacc ctnctgttc aaaggattgc ttggttgcc 420
 cgccgcggga aacggagggt ttcagaagca 450

<210> 113
 <211> 1810
 <212> DNA/RNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:primer

<220>
 <221> misc_feature
 <222> (1)..(1810)
 <223> autocrine motility factor receptor (AMFR)
 gene.

<400> 113
 ggggggaagg ccaagcagt accaggaaga gggagaaact tctgctcaga ccgagcgtgt 60
 gccactggac ctcaactc ccttgaggag gacgtggac ttggcgagg tggaagtga 120
 gccagttag gtggaagact tcgagctcg tgggagccgc ttctccaagt ctgctgatga 180
 gagacagcgc atgctggtcg cagcgtaagg acgaactcct ccagcaagct cgcaaaggt 240
 tcttgaacaa aagttctgaa gatgatgcgg cctcagagag cttcctcccc tcggaagggt 300
 cgctctctga ccccgtagc ctgcgtcgaa ggatgctggc tgccgcgagg aacggagggt 360
 tcagaagcag cagacctcct agcgtccct tgccttctc agctgcct cc tgcgccctgt 420
 gcccgactga ctggaggagg cctgtcccaa ttctgcgct ccattgaaaa gcgggcttga 480

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ctgcattgcc gctgtataaa gcatgtggtc ttatagtgtt tggacagctg ataaatttaa 540
tccttctttg taatactttc tatgtgacat ttctcttccc cttagaaaca ctgcaaatTT 600
taactgtagg tatgatctct tctggg gttg actggactgc ttgggggtggg ggacgatcag 660
gaggaagtga gccagtcgcc tgccctgcagc aggcagcttc tactcctgcc tcatgcatac 720
gtcccacaaa tgcaggtgtc ctgagcacca caccagtggt gaagagtgtg ggggaggcgc 780
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cactgcgttt tctagctgt gttattcctg gtttaattca gcagagaagg taagtggtga 1380
acctacctgc cttggagagg cccaggtccc aaatctcttc aaattcttca catgtttaac 1440
tttaaggatt tgaaccatga agtcataggt tacagacctc agttttatgc cccattgga t 1500
tacttttttt tttttttttt tttttttact ctttgaaagc ttgttttgtt ggtagtgcgt 1560
tttggaaga atccagtatt atctacaatt attggcaaag tttaaagtga ttttacataa 1620
cggaaagttt ttagaatgtt gaaaagtaat tgaaaaaggt gataggtaaa ttttaggca 1680
aagataattt atttcaataa atctttcaaa agc cttaact tgaaatgctg ttagtaaatt 1740
tctgtgcatt tttttttttt aatttgtttt gctgagagca tagctatttg tttttattgt 1800
aaaccgcgcc                                     1810

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<210> 114

<211> 248

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer

<220>

<221> misc_feature

<222> (1)..(248)

<223> 3' terminal sequence. homo sapiens mrna;
 cdna dkfzp434c136 (from clone dkfzp434c136) (EST
 R81127) gene.

<400> 114

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gaaattccaa aatcactcta gtttattcac ataatatagn atttgattcc attcttttgn 60
actgtncccn acttttacaa tgtgtacaat gtttcacat gtnccaatta atgggttgagc 120
tttaaagtga aatattctgg ancttccatt tatnggnatc aaccacaata gcaagacccc 180
cangaaatac ttgatctaaa ctgggagggt ccaacacaat tttttttttt aatgggnctt 240
gccacctt                                     248

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<210> 115

<211> 415

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer

<220>

<221> misc_feature

<222> (1)..(415)

<223> 3' terminal sequence. b-cell cl1/lymphoma 2
 (BCL2) gene.

<400> 115
 ttttttaaag cagcttttga aatatcaacc acagcattaa acattgaaca gagtacattc 60
 caaagtttaac acagataaat ggtatataat gcaataatgc cacagagtta ttccatcaat 120
 gtttcanggc tgattctaaa ctggangaaa aaaaaaatn cctagtttat ttgctganga 180
 tgtcacttct tttgttactt ctttatagtt cccaccatt gattttnttt ttaatgcccc 240
 ggggtgtaca ggataacccc catattccac accggggnac ttttttttg tcagggtttt 300
 caaataaanc caaactacag tgacaggata atgttttaca ggtaattccn tgggocgggg 360
 ggtcaattat ncttggacac ctcacttcaa ggcntccttt ggggggtttg gggcc 415

<210> 116
 <211> 468
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:primer

<220>
 <221> misc_feature
 <222> (1)..(468)
 <223> 5' terminal sequence. b-cell cl1/lymphoma 2
 (BCL2) gene.

<400> 116
 aattgtgcca gaaaagcatt ttagcaattt atacaatata atccagtacc ttaagccctg 60
 attgtgtata ttcatatatt ttggatacgc accccccaac tccaataact ggctctgtct 120
 gagtaagaaa cagaatcctc tggaacttga ggaagtgaac atttcgggtga cttccgcac 180
 aggaaggcta gaggtaacca gagcatcagg ccgccacaag tgccctgcttt t aggagaccg 240
 aagtcgcgag aacctgcctn tgteccagct tggaggcctg gtccctgggaa ctgagccggg 300
 gccctcactn gcctcctcca gggatgatca acaggngcag tgtggtntcc gaatgtctgg 360
 aagcttgatg ggagctcaga atttccactg ttcaagaaag agncagtaga ggggtgtngc 420
 tgggnctgtt cacctggggg cctncaggt agngcccntt tttcacgt 468

<210> 117
 <211> 6030
 <212> DNA/RNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:primer

<220>
 <221> misc_feature
 <222> (1)..(6030)
 <223> b-cell cl1/lymphoma 2 (BCL2) gene.

<400> 117
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 taaccgggag atagtgtatga agtacatcca ttataagctg tcgcagaggg gctacgagt 120
 ggatgcggga gatgtggcg ccgcgcccc gggggccgc cccgcgcgg gcactctctc 180
 ctgcagccc gggcacacgc cccatacagc cgcacccgg gaccgg gtgc ccaggacctc 240
 gccgtgcag acccgggtg ccccgggcg cgcgcgggg cctgcgtca gccgggtgcc 300
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 tgccacggtg gtggaggagc tctt caggga cgggggtgaac tgggggagga ttgtggcctt 480
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 ggacaacatc gccctgtgga tgactgagta cctgaaccgg cacctgcaca cctggatcca 600
 ggataacgga ggctgggatg cctttgtgga actgtacggc cccagcatgc ggcctctgtt 660

tgattttctcc tggotgtctc tgaagaactct gctcagtttg gccctggtgg gagcttgcac 720
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 caaaagggtc actaaagcag tagaaataat atgcattgtc agtgatgttc catgaaacaa 840
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 aagggaataa tcatttattt tttacattat taagaaaaaa agatttattt atttaagaca 1020
 gtcccatcaa aactcctgtc tttgaaatc cgaccactaa ttgccaagca ccgcttcgtg 1080
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<210> 118

<211> 343

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer

<220>

<221> misc_feature

<222> (1)..(343)

<223> 5' terminal sequence. v-erb-b2 avian
erythroblastic leukemia viral oncogene homolog 2
(neuro/glioblastoma derived oncogene homolog)
(ERBB2) gene.

<400> 118

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<210> 119

<211> 4530

<212> DNA/RNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:primer

<220>

<221> misc_feature

<222> (1)..(4530)

<223> v-erb-b2 avian erythroblastic leukemia viral
oncogene homolog 2 (neuro/glioblastoma derived
oncogene homolog) (ERBB2) gene.

<400> 119

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<210> 120

<211> 319

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer

<220>

<221> misc_feature

<222> (1)..(319)

<223> 5' terminal sequence. mouse double minute 2,
human homolog of; p53-binding protein (MDM2) gene.

<400> 120

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<210> 121

<211> 2372

<212> DNA/RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer

<220>

<221> misc_feature

<222> (1)..(2372)

<223> mouse double minute 2, human homolog of;
p53-binding protein (MDM2) gene.

<400> 121

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<210> 122

<211> 343

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer

<220>

<221> misc_feature

<222> (1)..(343)

<223> 3' terminal sequence. gata-binding protein 3
(GATA3) gene.

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<210> 123

<211> 258

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer

<220>

<221> misc_feature

<222> (1)..(258)

<223> 3' terminal sequence. src homology 3
domain-containing protein hip-55 (HIP-55) gene.

<400> 123
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<210> 124

<211> 443

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer

<220>

<221> misc_feature

<222> (1)..(443)

<223> 5' terminal sequence. src homology 3
domain-containing protein hip-55 (HIP-55) gene.

<400> 124
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cgacacagag atctcctttg accccgagaa cctcatcacg ggcacgagg tgatcgacga 120
aggttggttg cgtggctatg ggccggatca tntgttngca tgttccctgc caactacgtg 180
gagctcattg agtgaggctg agggcacatc ttgcccttcc cctctcagac atggcttc ct 240
tattgctgga agaggaggcc tggggagtgt acattcagca ctcttcagg gaatagggac 300
cccagttga ggattgaggc ntcagggttc cctccggntt gggcagattc agccttttca 360
cccaaatgg cagcaattgg cntgggtgat ttcccacaaa tcnttctggt cattcccccg 420
acctttccca gacagtttg ttt 443

<210> 125

<211> 1331

<212> DNA/RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer

<220>

<221> misc_feature

<222> (1)..(1331)

<223> src homology 3 domain-containing protein
hip-55 (HIP-55) gene.

<400> 125

```

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accgagaagt ccccgaccga ctgggctctc ttacctatg aaggcaacag caatgacatc 120
cgcggtggctg gcacagggga ggggtggcctg gaggagatgg tggaggagct caacagcggg 180
aaggtgatgt acgccttctg cagagtgaag gaccccaact ctggactgcc caaatttgtc 240
ctcatcaact ggacaggcga gggcgtgaac gatgtgcgga agggagcctg tgccagccac 300
gtcagcacca tggccagctt cctgaagggg gcccatgtga ccatcaacgc acggggccag 360
gaggatgtgg agcctgagtg catcatggag aaggtggcca aggccttcagg tgccaactac 42 0
agcttttcaca aggagagtgg ccgcttcacg gacgtgggac cccaggcccc agtgggctct 480
gtgtaccaga agaccaatgc cgtgtctgag attaaaaggg ttggtaaaga cagcttctgg 540
gccaaagcag agaaggagga ggagaaccgt cggctggagg aaaagcggcg ggccgaggag 600
gcacagcggc agctggagca ggagcgccgg gagcgtgagc tgcgtgaggc tgcacgccgg 660
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caagaagtgg ttccaaggaa ccgaaatgag caggagtctg ccgtgcaccc gagggagatt 780
ttcaagcaga aggagagggc catgtccacc acctccatct ccagtcctca gcctggcaag 840
ctgaggagcc ccttctctgc a gaagcagctc acccaaccag agaccactt tggcagagag 900
ccagctgctg ccatctcaag gccagggca gatctccctg ctgaggagcc ggcgccccagc 960
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gagaccttct acgagcagcc cccactggtg cagcagcaag gtgccggctc tgagcacatt 1080
gaccaccaca ttcagggcca ggggctcagt gggcaagggc tctgtgcccg tgccctgtac 1140
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atcgaggtga tcgacgaagg ctggtggcgt ggctatgggc cggatggcca ttttggcatg 1260
ttccctgcca actacgtgga gctcattgag tgag gctgag ggcggccgct agactagtct 1320
agagaaaaaa c 1331

```

<210> 126

<211> 430

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer

<220>

<221> misc_feature

<222> (1)..(430)

<223> 3' terminal sequence. cathepsin d (lysosomal
aspartyl protease) (CTSD) gene.

<400> 126

```

gtattttccat gtcagctggg gctctcagcc gcccaagggg aggacaacag aggtcagctg 60
cagaggaagg ctggcaccag cccaatccc aacccacct ccaggccaat acatgccctc 120
gggactggct cagtcaccag accaccctgc aggcctcaac aaggtgggtt ttgtccctc 180
tactccttc cagtcacatc tcaggcctct agcggcctca tcctcaacgg gcccgggaca 240
ctgaacaggt aggtgtggca gagccagctg ggncccaagc tnggcaagag gggccctcag 300
gcagggcagg ttttncaagg gaggncccg gaggacggcc ttgggtnttg g ggtaagggc 360
ttaanccagt cngggctttg gtaagggcc ggaagggat tccntgggna aattaaagg 420
aanccccagg 430

```

<210> 127

<211> 339
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer

<220>

<221> misc_feature

<222> (1)..(339)

<223> 5' terminal sequence. cathepsin d (lysosomal aspartyl protease) (CTSD) gene.

<400> 127

```
gtggatgagg tggcgactg cagaaggcca tcggggcgtn gccgctgatt cagggcgagt 60
acatgatccc ctgtgagaag gtgtccacc c tggccgcgat cactgaag ctgggaggca 120
aaggctacaa gctgtcccca gaggactaca cgctcaagggt gtgcgaggcc gggaagaccc 180
tctgcctgag cggcttcatg ggcattggaca tcccgccacc cagcggncac tctggatcct 240
ggggcgacgt cttcattcgg ccgttantac attgtgtttt gaccgtgaca acaacagggt 300
tgggtttcgc gaggcttgcc cgcttttagt ttcccaagg 339
```

<210> 128

<211> 1988

<212> DNA/RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer

<220>

<221> misc_feature

<222> (1)..(1988)

<223> cathepsin d (lysosomal aspartyl protease) (CTSD) gene.

<400> 128

```
ccatgcagcc ctccagcctt ctgccgctcg cctctgcct gctggctgca cccgcctccg 60
cgctcgtcag gatcccgctg cacaagttca cgctccatccg ccggaccatg tcggagggtg 120
ggggctctgt ggaggacctg attgccaaag gcccgctctc aaagtactcc caggcgggtg 180
cagccgtgac cgaggggccc attcccgagg tgctcaagaa ctacatggac gccagtgact 240
acggggagat tggcatcggg acgccccccc agtgcctcac agtcgtcttc gacacgggct 300
cctccaacct gtgggtcccc tccatccact gcaaaactgt ggacatcgct tgctggatcc 360
accacaagta caacagcgac aagtccagca cctacgttaa gaatggatcc tcgtttgaca 420
tccactatgg ctccggcagc ctctccgggt acctgagcca ggacactgtg tcggtgccct 480
gccagtcagc gtcgtcagcc tctgccctgg gcggtgtcaa agtggagagg caggctcttg 540
gggaggccac caagcagcca ggcatacct tcatcgagc caagttcgat ggcatacctg 600
gcatggccta ccccgcatc tccgtcaaca acgtgctgcc cgtcttcgac aacctgatgc 660
agcagaagct ggtggaccag aacatcttct ccttctacct gagcaggagc ccagatgcgc 720
agcctggggg tgagctgatg ctgggtggca cagactccaa gtattacaag ggttctctgt 780
cctacctgaa tgcacccgc aaggcctact ggcaggtcca cctggaccag gtggagggtg 840
ccagcgggct gacctgtgc aaggagggt gtgaggccat tgtggacaca ggcacttccc 900
tcatggtggg cccggtggat gaggtgcgcg agctgcagaa ggccatcggg gccgtgccgc 960
tgattcaggg cgagtacatg atccccctgt agaagggtgc caccctgccc gcgatcacac 1020
tgaagctggg aggcaaaggc tacaagctgt cccagag ga ctacacgctc aagggtgtgc 1080
aggccgggaa gacctctgc ctgagcggt tcatgggcat ggacatccc ccacccagcg 1140
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acaacaacag ggtgggcttc gccgaggctg cccgcctcta gttcccaagg cgtccgcgcg 1260
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acacacaccc acacactgc ccgcccactg tcttgggcgc cctggaagcc ggcgcccaa 1380
gcccgacttg ctgttttgtt ctgtggtttt cccctccctg ggttcagaaa tgctgcctgc 1440
```

```

ctgtctgtct ctcacatctgt ttggtggggg tagagctgat ccagagcaca g atctgtttc 1500
gtgcattgga agaccccacc caagcttggc agccgagctc gtgtatcctg gggctccctt 1560
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gatgaggccg ctagaggcct gaggatgagc tggaaggagt gagaggggac aaaaccacc 1800
ttgttgagc ctgcagggtg gtgctgggac tgagccagtc ccaggggcat gtattggcct 1860
ggaggtggg ttgggattgg gggctgggac cagccttcct ctgcagctga cctctgttgt 1920
cctcccttg ggcggctgag agcccagct gacatggaaa tacagttgtt ggcctccggc 1980
ctccctc 1988

```

<210> 129

<211> 385

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer

<220>

<221> misc_feature

<222> (1)..(385)

<223> 5' terminal sequence. insulin-like growth factor 1 receptor (IGF1R) gene.

<400> 129

```

gtggcggcac tcattgttct cggtcacgc ccgcttccca cagtgcttg tggcacattt 60
tctggcagcg gtttgtggtc cagcagcgg agttgtactc at tgttgatg gtggtcttct 120
cacacatcgg cttctcctcc atggtccctg gacacaggtc cccacattcc ttggggggct 180
tattccccac aatgtagtta ttggacaccg catccaggat cagggaccag tccacagtn 240
agaggttaaca gaggtcagca tttttctcaa tctgatggc ccccgagta atgttctca 300
ggttgtaaag cccaatatcc ttgaggatgg gtcaatcttc gaaggatgaa ccaggggcnt 360
aggtttnttg gaaggagntt ttcca 385

```

<210> 130

<211> 4989

<212> DNA/RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer

<220>

<221> misc_feature

<222> (1)..(4989)

<223> insulin-like growth factor 1 receptor (IGF1R) gene.

<400> 130

```

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ggaggagggt cccgcacctc gctgtggggg ctctgttttc tctccgcgc gctctcgc 120
tgcccgacga gtgga gaaat ctgcgggcca ggcacgcaca tccgcaacga ctatcagcag 180
ctgaagcgcc tggagaactg cacggtgatc gagggctacc tccacatcct gctcatctcc 240
aagcccgagg actaccgcag ctaccgcttc cccaagctca cggtcattac cgagtacttg 300
ctgctgttcc gagtggctgg cctcgagagc ctcgagagacc tcttcccca cctcacg gtc 360
atccgcggtt ggaaactctt ctacaactac gccctggtca tcttcgagat gaccaatctc 420
aaggatattg ggctttacaa cctgaggaac attactcggg gggccatcag gattgagaaa 480
aatgctgacc tctgttacct ctccactgtg gactggctcc tgatcctgga tgcggtgtcc 540
aataactaca ttgtggggaa taagcccca aagga atgtg gggacctgtg tccagggacc 600

```

atggaggaga	agccgatgtg	tgagaagacc	accatcaaca	atgagtacaa	ctaccgctgc	660
tggaccacaa	accgctgcca	gaaaatgtgc	ccaagcacgt	gtgggaagcg	ggcgtgcacc	720
gagaacaatg	agtgtgtcca	ccccgagtgc	ctgggcagct	gcagcgcgcc	tgacaacgac	780
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ggtggggggg	gagagagagt	tttaacaatc	cattcacaag	cctcctgtac	ctcagtggat	4260

87/292

```

cttcagttct gcccttgctg cccgcgggag acagcttctc tgcagtaaaa cacatttggg 4320
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tgaaccggc 4989

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<210> 131

<211> 470

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer

<220>

<221> misc_feature

<222> (1)..(470)

<223> 5' terminal sequence. insulin receptor (INSR) gene.

<400> 131

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gtatctaaaa atccgcgat cctacgtctt ggtgtcactt tcttcc ttcc ggaagttaac 120
tgtgattcga ggagagacct tggaaattng gaactactcc ttctatgcct tggacaacca 180
gaacctaaag cagctctggg actggagcaa acacaacctc accatcactc aggggaaact 240
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tcagggaacc aaggggncgc cagg aggaga aacgacattt nccctggaag gaccaatggg 360
gggaccaggg catcctgttg aaaaatggag ttacttttaa anttttgctt taacattngg 420
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```

<210> 132

<211> 4691

<212> DNA/RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer

<220>

<221> misc_feature

<222> (1)..(4691)

<223> insulin receptor (INSR) gene.

<400> 132

```

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ccagcgcgcg gcgcctgatc cgaggagacc ccgcgctccc gcagc catgg gcaccggggg 120
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taggttgcat gagctggaga attgctctgt catogaagga cacttgcaga tactcttgat 300
gttcaaaacg aggccgaag att tccgaga cctcagtttc cccaaactca tcatgatcac 360
tgattacttg ctgctcttcc gggctctatg gctcgagagc ctgaaggacc tgttccccaa 420

```


cctcacggtc atccggggat cagcactgtt ctttaactac ggcctgggtca tcttcgagat 480
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 catcgagaag aacaatgagc tctgttactt ggccactatc gactgggtccc gtatcctgga 600
 ttccgtggag gataatcaca tcgtgttgaa caaagatgac aacgaggagt gtggagacat 660
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<211> 451

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:primer

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<221> misc_feature

<222> (1)..(451)

<223> 5' terminal sequence. forkhead box ola
(rhabdomyosarcoma) (FOXO1A) gene.

<400> 133

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<210> 134

<211> 5723

<212> DNA/RNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:primer

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<223> forkhead box ola (rhabdomyosarcoma) (FOXO1A)
gene.

<400> 134

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<211> 466

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer

<220>

<221> misc_feature

<222> (1)..(466)

<223> 3' terminal sequence. epidermal growth
factor receptor (avian erythroblasti c leukemia
viral (v-erb-b) oncogene homolog) (EGFR) gene.

<400> 135

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<210> 136

<211> 450

<212> DNA

<213> Artificial Sequence

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